CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

FEBRUARY 28 1959



"...tastes good, too..."

SYRUP

Trade V-C L-K Mark

PAEDIATRIC

An oral penicillin preparation for children needs to look good, taste good, and be effective. Syrup 'V-Cil-K' possesses all these attributes, and children delight in taking it.

Each 5 cc. of the prepared syrup contains 125 mg. 'V-Cil-K' brand Penicillin V Potassium, the most effective form of oral penicillin. It is available in bottles containing dry granules to make 30 cc. and 60 cc.

The average dose is $\frac{1}{4}$ to 1 teaspoonful four times daily. List Prices are 8/6 and 15/-.

SYRUP 'V-CIL-K'

PENICILLIN V POTASSIUM



ELI LILLY AND COMPANY LIMITED, BASINGSTOKE, ENGLAND



INTRODUCING

Rapid adsorption of gastric hydrochloric acid is accepted as the most effective method of obtaining relief in peptic ulcer pain.

* In two minutes a single teaspoonful (3.5 mls.) of DROXALIN GEL will neutralise 50 mls. of N/10 HC1. This is several times the speed of acid adsorbents prepared by usual methods.

DROXALIN GEL

Using the well established Droxalin formulation a new and exclusive manufacturing technique has produced in DROXALIN GEL an antacid possessing this significant increase in initial acid adsorption. The advantages of quicker acting DROXALIN GEL in peptic ulcer therapy and hyperacidity will be readily recognised. The palatability of Droxalin Tablets is achieved.



ACID ADSORBENT

Droxalin palatability in liquid form

ACTIVE INGREDIENTS

Each teaspoonful (3.5 mls.) contains 60 grains Aluminium Hydroxide Gel B.P. (equivalent to 5 grains Dried Aluminium Hydroxide Gel B.P.) and 5 grains Magnesium Trisilicate B.P.

DOSAGE

One or two teaspoonfuls one half-hour after meals, Repeat as necessary.

PACKS AND PRICE

DROXALIN GEL is available in 8 oz. and 80 oz. bottles. Prescribable on E.C.10. Basic N.H.S. cost. 1/10d per 6oz. bottle.

CLINICAL TRIAL SAMPLES ON REQUEST TO :- SCOTT & TURNER LTD. NEWCASTLE UPON TYNE

A&H

prepare the first vaccine in the world for prophylaxis against a PARASITIC DISEASE

A revolutionary advance is made in veterinary medicine with the introduction of Dictol—the first vaccine in the world to be prepared for the prevention of bovine husk. Moreover, this is the first time a vaccine has been prepared for protection against a parasitic disease.

Dictol opens up an entirely new field of immunology hence administration must be controlled under the direct supervision of a veterinary surgeon.

Dictol retains its full potency for only a short time; it should be used directly it is received. No credit can be allowed for unused Dictol.

You should only accept prescriptions for Dictol signed by a veterinary surgeon. When you receive such a prescription you should order the requisite supplies from us giving the name and address of the veterinary surgeon responsible for the prescription. The vaccine will be sent direct to the veterinary surgeon and invoiced to you at the professional price, less your booking fee.

We cannot send supplies of Dictol direct to you or direct to the farmer.



FOR ADMINISTRATION TO BOVINES ONLY

Manufactured in England by



SOLPRIN · CODIS · CAFDIS

Their place to-day

General acceptance of Solprin, Codis and Cafdis is due to their aspirin content being soluble and substantially neutral. Consequently all three are quick acting and are far less likely to upset the stomach. Medical opinion to-day is overwhelmingly in support of soluble aspirin. This is why doctors prescribe Solprin, Codis or Cafdis, and this is why the chemist dispenses them so often.



Neutral soluble aspirin.



Soluble aspirin with codeine and phenacetin.



Soluble aspirin, phenacetin and caffeine.

BROMIDES

POTASSIUM BROMIDE SODIUM BROMIDE AMMONIUM BROMIDE POTASSIUM BROMATE SODIUM BROMATE

FOR SPOT DELIVERY AND ON CONTRACT

R. W. GREEFF & Co. Ltd.

GARRARD HOUSE

31/45 GRESHAM STREET, LONDON, E.C.2

Manchester

Birmingham

THE NEW RED LABEL

DAISY POWDERS

- * NEW 'PLUS' FORMULA
- * NEW MODERN PACKING
- * NEW BIGGER PROFITS

In Two Sizes

1/11 (8 Powders) 13/10 doz. (Plus Tax 30%)5/4 (24 Powders) 38/4 doz. (Plus Tax 30%)Single Powders 3d. each

DAISY TABLETS at corresponding wholesale prices retailing at 1/11, 2/11, and 3/11.

Split bulk sales of DAISY POWDERS from the 5/4 size show chemists 36% profit on net turnover. The smaller size shows 26% profit sold intact and 31% when split.

From any wholesaler:

J. E. ELLIS LTD. REGENT HOUSE, HARROGATE

Manufacturing Chemists

AN ENCYCLOPÆDIA OF POISONS LAW

The Chemist & Druggist

POISONS GUIDE

Compiled and
Co-ordinated by
W.A. WHATMOUGH
B.Sc., Ph.C., F.R.I.C.

No pharmacist can afford to be without these two Volumes. They provide complete information on what the authorised seller of poisons should do in every situation covered by the Poisons Rules and Dangerous Drugs Regulations.

Order these essential volumes NOW!

POISONS LIST & KEY
20/= (postage 1/2)

VOLUME 2
POISONS PROVISIONS & EXPLANATIONS
40/= (postage 1/9)

Order from your Bookseller or direct from The Publisher: 28 ESSEX STREET, STRAND, LONDON, W.C.2.

HOT NEWS!

Just out

NEW SOLTANETTE low priced infra-red lamp



A lamp with extraordinary sales appeal in its contemporary design and popular price.

This new table model long wave infra-red generator lamp has all the well-known practical Soltan features, and some new ones:

- contemporary lightweight stand; folds down for easier packing.
- insulated knobs for easy angle adjustment.
- strong, plated steel wire guard.
- highly polished reflector.
- convertibility to radiant heat.
- 'cord-grip' cable entry.

One of a range of new designs

Write or 'phone for full details and illustrated list of infra-red lamps, ultra-violet lamps and high-frequency equipment.



THE LONDON COMMERCIAL ELECTRICAL STORES LIMITED 20-22 Cursitor Street, London, E.C.4. Tel: CHA 6488





Specialists in Vegetable Raw Materials

We stock 600 lines as diverse as: AGAR AGAR · CAMPHOR · EUCALYPTOL PEPPERMINT · QUILLAYA · SPERMACETI · TRAGACANTH · WITCH HAZEL

BROME & SCHIMMER LTD 7, LEATHER MARKET

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They're rushing to stop coughing!

And they won't stop rushing till they've experienced the consolation of smooth and dependable relief—as provided by 'Pectamol' Linctus and 'Tussimol' Cough Pastilles. Each contains oxeladin, an entirely new type of cough suppressant acting directly on the medullary centre.

'TUSSIMOL'

COUGH PASTILLES

'PECTAMOL'

LINCTUS

The pleasantly flavoured pastilles that deal effectively with the dry 'tickling' cough.

TRADE: per dozen tins 23/9.

TRADE: 2/8 each—exempt P.T.

Special winter bonus terms for direct orders.

For specific cough suppression with local demulcent effect.

TRADE RETAIL

TRADE RETAIL
60 ml.2/63/9
250 ml.8/9
2 litres56/1

THE BRITISH DRUG HOUSES LIMITED LONDON N.1



Vitamins, Ltd.51

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André Philippe

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(Empire Hall, Ground Floor, Olympia)

A comprehensive range of our popular products will be displayed, including the successful PERFUME "X" recently featured on TV, and followed now by the new and exciting PARFUM "CHA-CHA"

Please keep this PRICE LIST for handy reference

Wholesale Price						
Lot No.	Description	Per Doz.	P.T.	S.P.	Packing	
		s. d.		s. d.		
1.	1 oz. Multi-Colour Bubble Bath Sachets (Asst.)	5 0	30%	9	3 doz.	
2.	Economy Pack Bubble Bath Bottle	16 8		2 6	1 ,,	
3.	Champagne Pack Bubble Bath Bottle	25 0		3 9	1 ,,	
4.	Bubble Bath Gift Pack (6 Sachets)	40 0		5 11	1 .,	
4A.	Bubble Bath Gift Pack (12 Sachets)	70 0	••	10 6	$\frac{1}{2}$,,	
5.	Zodiac Perfumes (Asst.)	13 6	60%	2 6	3 ,,	
5A.	Iced Perfume Sticks. Cologne, Lavender. Freesia	5 8		1 0	3 .,	
6.	Perfumed Eyebrow Pencils (Asst.)	3 9		8	3 ,,	
6A.	Puffer Talcs. Lilac/Bouquet	11 3		2 0	2 doz. Asst.	
7.	Scotch Heather and Devon Violets	16 0		3 0	1 .,	
7A.	Ladies' Spray Brills Lt/Dk	10 0	,.	1 9	2 " "	
8.	Perfumed Spray Lacquer	12 6	,,	2 3	2 ,,	
9.	Spray Lacquer Refill	7 6		1 4	3 .,	
9A.	Perfumed Sun Tan Spray	11 3		2 0	1 .,	
10.	Cream Shampoo Sachets Lemon/Pink/Med	3 4	30%	6	3 ,,	
10A.	Reconditioning Cream Sachets	2 10	60°0	6	3 ,, ,,	
11.	Cream Shampoo Dispensers, Lemon/Pink, Cream	10 0	30 %	1 6	3 ,,	
11A.	Antiperspirant Deodorant Spray	10 0	• •	1 6	3 .,	
12.	Perfumed Lanoline Hand Cream	8 6	60%	1 6	2 .,	
13.	Complexion Milk	8 6	••	1 6	2 ,,	
19.	Perfume "X"	13 6		2 6	2 ., sh'box	
19A.	Waveset Sachets	2 10	**	6	3 ,, outers	
20.	Parfum "CHA-CHA"	13 6	**	2 6	2 .,	

AVAILABLE FROM YOUR WHOLESALER

Perfume Testers and Attractive showcards available with all Perfumes

Agents, Le Galion Perfumes, PARIS

ANDRÉ PHILIPPE, SILMOR DISTRIBUTING CO.

16 COSWAY STREET, MARYLEBONE, LONDON, N.W.I.

Telephone: Paddington 6502



See the Conquering Hero comes! This great new line in aerosols is going to mean big business for you. To start the range rolling there's an Air Freshener and an Insecticide at 4/6d., an Oven Cleaner and a Spot Remover at 5/-. More to follow as Hero grows in popularity, backed by heavy advertising.

... and the Medicated Cold

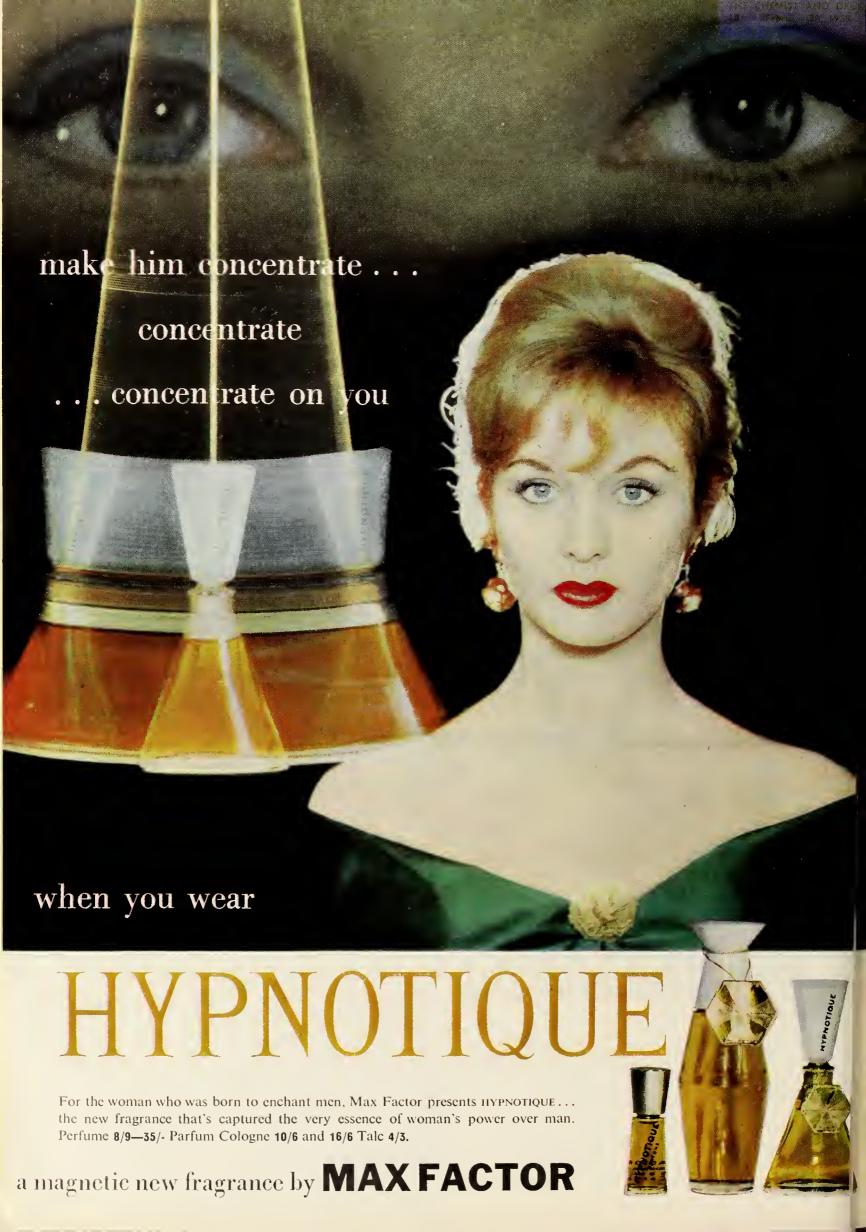
Relief—retailing at 7/3d.

PROPRIETARY PRESSURE PACKAGES LIMITED

BACKED BY A
T.V. AND
NATIONAL PRESS
ADVERTISING
CAMPAIGN TO
MAKE SELLING EASY







A golden selling opportunity to mark MAX FACTOR'S Golden Jubilee Year...

A classic new fragrance launched with the full Max

Factor power of four-colour advertising in magazines,

compelling T.V. Commercials, dynamic display material.

HYPNOTIQUE . . . a new fragrance by Max Factor . . . a magnetic fragrance by Max Factor . . . a fragrance so compelling in its enchantment that women everywhere will want to try . . . and then buy. Exquisite packaging and elegant presentation give instant eye appeal . . . brilliant new colour advertisements, TV Commercials and display aids give all the selling impetus that you have come to expect from Max Factor.

Feature HYPNOTIQUE in a big way! . . . show the whole wonderful range of perfume, cologne and talc. That's all you have to do to reap the benefit of Max Factor's greatest promotion . . .

no woman can resist the power of

MAX FACTOR HYPNOTIQUE

the selling sensation of 1959

The Mix-a-Shake season opens with a bonus

of up to 10%

On all orders received before 30th April the following extra stocking-up bonuses are offered to retailers: 1 x 12-dozen cases, or 2 x 6-dozen cases—normal retail terms 20% plus additional 5%

2-5 x 12-dozen cases, or 4-10 x 6-dozen cases—normal retail terms 20% and 5% plus additional $7\frac{1}{2}\%$

6 and over x 12-dozen cases, or 12 and over x 6-dozen cases—normal retail terms 20% and 10% plus additional 10%

DISPLAY

makes the most of your bonus

A recent survey of Mix-a-Shake users showed that nearly HALF of them saw it for the first time IN THE SHOP! So display and increase your sales.

A big television campaign for Mix-a-Shake begins in mid-April. Make certain you have the STOCKS and the DISPLAY to tie-in with the advertising.

STRAWBERRY PINEAPPLE BANANA

Mix-a-Shake

Available in cases of 6 or 12 dozen packets selling at 6d. per 1-oz packet—one flavour only per case.

Ask your wholesaler for Mix-a-Shake with the new stocking-up Bonus Offer, or write direct to:—

HORLICKS LIMITED, SLOUGH, BUCKS. Tel. No.: Slough 22322



"Please provide oxygen therapy set with Polymasks - MS 500 48 cu. ft. oxygen"

You might receive this prescription now that the new lightweight Single Unit Set for domiciliary oxygen therapy has been approved for use against E.C.10 orders. Developed by British Oxygen this equipment is robust, easy to operate, and is supplied with two disposable Polymask inhalers. This domiciliary oxygen therapy equipment is now an essential item in a chemist's stock.

For demonstration and full details of how to purchase or hire this equipment, please write to

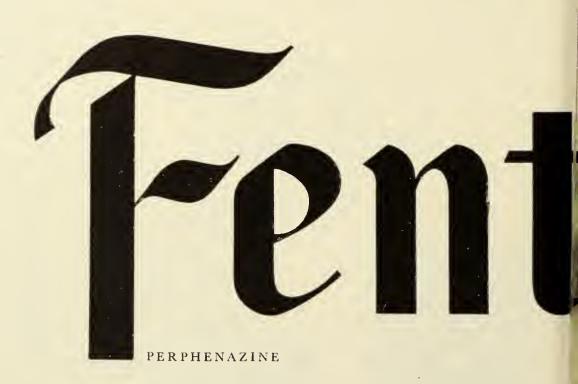


BRITISH OXYGEN

British Oxygen Gases Limited Medical Div., Great West Road, Brentford, Middx.

new!

effective v



Fentazin tablets are safely effective for the treatment of conditions ranging from anxiety to schizophrenia. Fentazin is five times more active than chlorpromazine—yet it offers a great reduction in side-effects.

Fentazin will be enthusiastically promoted to all sections of the medical profession. Prescription demand for Fentazin will grow rapidly. Are **your** stocks of Fentazin sufficient?

PACKS

Fentazin tablets are available in three strengths, containing 2 mg., 4 mg., or 8 mg. perphenazine. All three strengths are issued in containers of 50 and 500 tablets.

Fentazin Injection contains 5 mg. perphenazine in each c.c., supplied in boxes of 5×1 c.c. ampoules.

P	R	I	C	E	S
Р	ĸ	1	C	Ł	2

		Retail	Trade
Fentazin Table	ts		
2 mg.	50	5/- each	3/4 each
	500	45/- each	30/- each
4 mg.	50	9/6 each	6/4 each
	500	85/6 each	57/- each
8 mg.	50	18/- each	12/- each
	500	162/- each	108/- each
Fentazin Injecti	on		
5 mg. in 1 c.	.c. 5×1 c.c. amps.	6/- each	4/- each



wide range of psychiatric disorders

broad-span effectiveness

- effective in anxiety and tension states
- effective in nausea and vomiting
 - effective in psychoneuroses
 - effective in psychoses

AH658

RE-SALE PRICE MAINTENANCE

In the High Court, on the 13th February, 1959,

BEECHAM FOODS LTD.

and

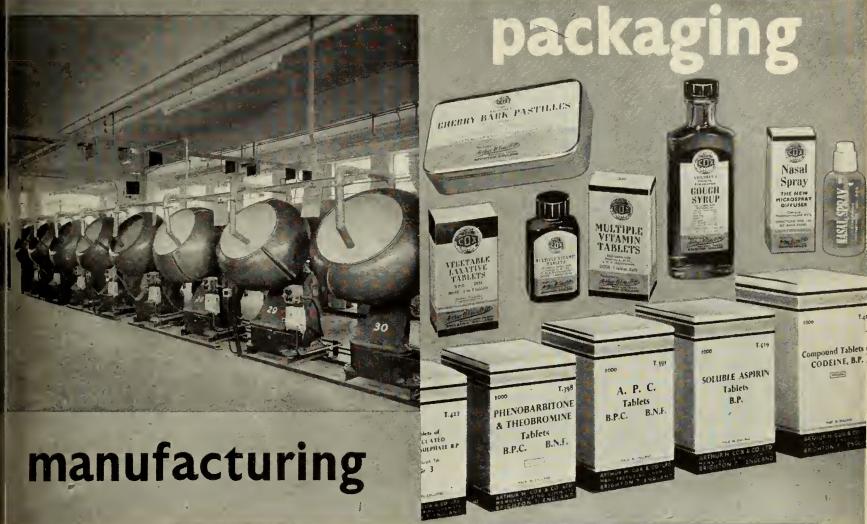
COUNTY LABORATORIES LTD.,

two of the Beecham Group of companies, were granted perpetual injunctions, with costs, against

ALEX DRUG STORES LTD. 79, High Road, Balham, S.W.12

restraining the defendants from selling the plaintiffs' products by retail at prices other than the fixed retail prices stated in the price lists issued by the plaintiffs and by their associated companies, HAROLD F. RITCHIE LTD. and MACLEANS LTD.

Companies of the Beecham Group have taken sixteen successful actions to protect the prices at which their goods may be sold to the public. It is their policy to ensure fair and reasonable profit margins to the trade and to give the public a continuing assurance of high quality and good service at fair prices.



he COX organisation offers a complete manufacturing and packaging service for the retailer, wholesaler and those marketing proprietary brands.

It is a home and overseas service that provides the finest products well packed and ethically presented.

Here are a few features designed by our Art and Packaging Departments:

Eleven attractive styles for retail pharmacists' "own name" preparations.

Special designs for proprietaries and private formularies.

A daily, post paid, breakage free, bulk tablet delivery.

Good visual designs for T.V.

High grade carton board and label paper and printing.

Strip packaging—extensive range.

Sachets for powdered and granular products.



BRIGHTON · ENGLAND



First time ever in COLOUR!

Again Jeyes' make news with the first ever interfolded toilet tissue in colour—pastel Pink and Blue as well as standard—same superfine quality, same price, same generous profit margin!

Colour is so enormously popular today that there's no doubt at all that this new exclusive Jeyes' feature will rocket demand far above anything you've known before. You'll need very good stocks indeed, so order now. You'll find the new bright packs for pink, blue and standard tissue the perfect material for attractive sales-compelling display!

BACKED BY ALL THE POWER OF JEYES' NATIONAL ADVERTISING INCLUDING FULL COLOUR ADVERTISEMENTS IN WOMEN'S MAGAZINES

JEYES PASTEL
PINK

INTERFOLDED
TOILET TISSUE IN STANDARD

STOCK UP
DISPLAY... NOW PASTEL
BLUE
PROFIT

SPECIAL OFFER

Bigger demand for Jeyes' Interfolded Toilet Tissue in colour will automatically bring greater interest in Jeyes' Toilet fittings in colour. These are available in Pale Pink, Turquoise, Light Green, Primrose, Ivory and Blue—as well as in White and Black. They are a perfect match for all modern makes of bathroom fittings and tile decor. And don't forget, when ordering, that biggest value-for-money offer in the trade today - Jeyes' Toilet Fitting in White, with two packs of Jeyes' Interfolded Toilet Tissue -value 13/- for only 8/6 retail! How are your stocks?

JEYES-IBCO SALES LIMITED, RIVER ROAD, BARKING, ESSEX



THE ONLY SLIMMING AID...

FORMULA

21

THE MODERN AID TO NATURAL SLIMNESS

A sound, tested product, honestly presented to your customers.

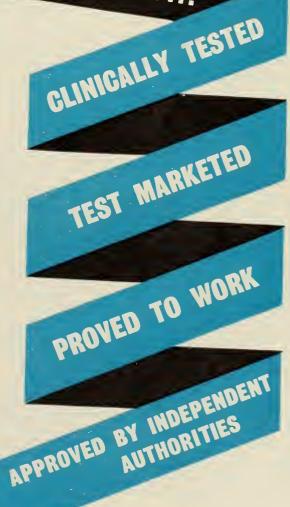
Every woman will see Formula 21 advertising repeatedly throughout the year. Dominating TV advertising on Every station. Whole pages and impressive spaces in leading Women's Magazines, National Daily and Sunday papers, general magazines and TV publications.

Order now from your Wholesaler to meet growing demand and repeat sales.

Arresting display material and leaflets freely available.

A PRODUCT OF GREENWOOD LABORATORIES LTD 84 ALBERT STREET, LONDON, N.W.I. EUSTON 6002/3

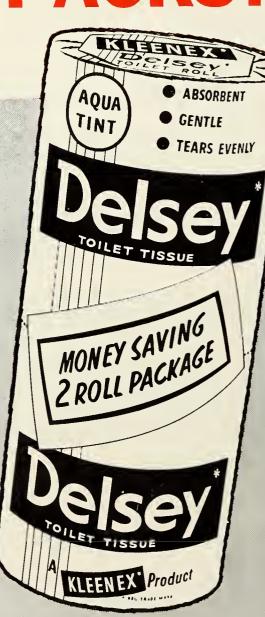
BACKED BY THE BIGGEST-EVER ADVERTISING CAMPAIGN FOR ANY SLIMMING AID



NOW...a full range of coloured Delsey in DOUBLE PACKS!



NEW 2/4 YELLOW DELSEY



NEW 2/4 DOUBLE PACK DOUBLE PACK **AQUA-TINT** DELSEY

Plus the popular 2/4 Double Pink

86% more profit for you selling Delsey this way!

1 out of 2 women buying Delsey now buy a single coloured roll. Now they'll buy double packs because they'll save 2d.

Women like colour—look at the booming sales of coloured Delsey Toilet Tissue!

Women love a saving—look at the popularity of white and pink double Delsey!

So just imagine the appeal to women of these new money-saving 2-roll packs of coloured Delsey!

Here's both colour and economy in one package—the two things women want.

Move in fast!

There's 86% more profit for you in selling Delsey this way than in selling single rolls.

GIVE FULL AND COMPLETE SERVICE TO YOUR CUSTOMERS STOCK THE FULL 2-ROLL DELSEY RANGE

- Available—Pink, Yellow, Aqua-Tint, White
- Pre-sold for you by national press and television advertising
- Packed 18 Double rolls to the ease
- Order through your wholesaler or direct from Kimberly-Clark Ltd., Larkfield, Kent
- Minimum direct order—5 eases. Can be combined with Kleenex and Kotex for case discounts.

Delsey

TOILET TISSUE
THE SUCCESSOR TO TOILET PAPER

"This week-end is your deadline!"



bigger than ever national campaign for the new

marigold TWO-TONE rubber gloves starts

Midlands) A.B.C. (Midlands and North) Granada — Scottish — T.W.W.—Southern and Tyne Tees.

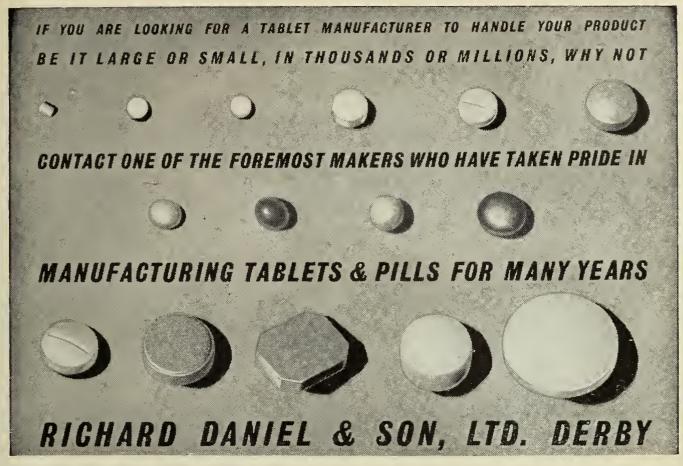
Every ITV Network Associated-Rediffusion — A.T.V. (London and

Plus Sunday Express continuous through March, April, May.



Get them on your now counter now

J. ALLEN RUBBER COMPANY LIMITED, WHITECROFT . GLOUCESTERSHIRE



Write us at Mansfield Road or ring Derby 40671 (Ten lines)

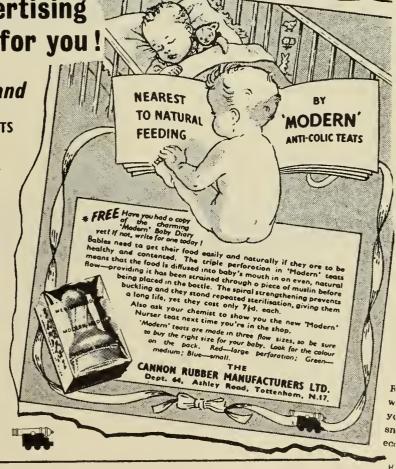


Stock up NOW to meet the demand for "MODERN" ANTI-COLIC TEATS

'Modern' Teats, with their triple perforation and spiral reinforcement for longer life, sell in greater quantities every year—as their popularity grows. Be sure that you take advantage of this increasing demand, stimulated by extensive national advertising, by having sufficient stocks of 'Modern' Teats available. Individually and attractively packed in a two-dozen display outer, 'Modern' teats retail at 7½d. each and are available in three flow sizes, easily distinguishable by the coloured packs—red for large perforation, green for medium and blue for small.

ORDER TODAY!

THE CANNON RUBBER MANUFACTURERS LTD. Ashley Road, Tottenham, London, N.17.

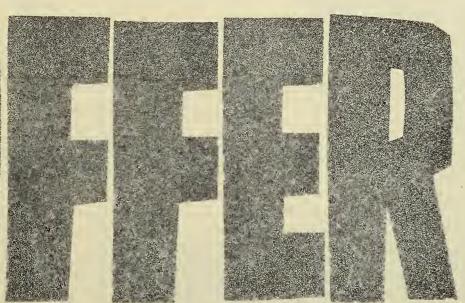


Sunfresh (Regd. Trade Mark)



HURRY! ONLY TWO WEEKS LEFT





OFFER CLOSES 14th MARCH 1959

With every case of one dozen bottles of Sunfresh Orange concentrate delivered by March 14th, one bottle of Sunfresh Lemon Glucose drink will be given FREE. ORDER FROM YOUR USUAL SUPPLIER NOW

PLUS 'BONUS SALES' IN THE SUNFRESH COMPETITION

The 1959 Sunfresh Competition is boosting your sales and profits with intensive TV advertising on all networks, bus sides throughout the country and large spaces in leading national dailies. And every bottle of Sunfresh you sell is a possible prize winner for you! Stock Sunfresh in plenty: you're sure to sell every bottle! O. R. Groves Ltd., 20 Jermyn Street, London, S.W.1. Telephone GERrard 9484 (7 lines)

J. F. MACFARLAN & CO., LTD.



D. Rennie Brown, great-grandfather of the present Managing Directors of the Company, first manufactured Morphine in Great Britain by a process devised by William Gregory of Edinburgh University. This was in the 30's of last century and Macfarlans have ever since been to the fore in the manufacture of the Alkaloids of Opium. Their Trade Mark showing the Opium Poppy has been widely known for generations, both in this country and overseas.

CODEINE & SALTS including Special Quality for tabletting . MORPHINE & SALTS

ETHYLMORPHINE & SALTS · NARCOTINE & SALTS

THEBAINE & SALTS

DIAMORPHINE & DIAMORPHINE HYDROCHLORIDE

109 Abbeyhill, Edinburgh, 8

8 Elstree Way, Boreham Wood, Herts





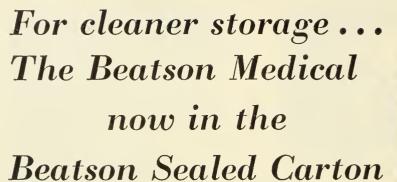
in PUNCH, JOHN BULL, WOMAN & HOME, COUNTRY LIFE, FAMILY DOCTOR and other

leading journals in a continuous campaign during January, February, March and April—This is the period when Health Lamps bring business to the go-ahead Dealer—Take your share of this lucrative business by stocking up with Health Master, the better Health Lamp.

Health Master-SELL FASTER

BARBER ELECTRICAL SERVICES LTD., WESTON-SUPER-MARE

Telephone: WESTON 2700





"The Sign of a Good Bottle"



ANOTHER BEATSON SERVICE!

To ensure maximum protection against dirt and dust, all Beatson Medieals are packed in the Beatson Sealed Carton thus maintaining the bottles in "production clean" condition until use.

Be sure to specify BEATSON

BEATSON, CLARK & CO. LTD.

GLASS BOTTLE MANUFACTURERS

BC 92 (R)

ROTHERHAM

BEATSON MEDICA

(Established 1751)

YORKS



sell her progressive hair magic" BROWNS

- for colouring hair up to 50% grey semi-permanently

The Progressive Brown shades of 'Hair Magic' (Brown, Ashen Brown and Chestnut Brown) subtly conceal grey hair, blending it imperceptibly with the natural hair colour. As easy to use as a shampoo. No skin test necessary. Depth of colour depends simply on the time left on the hair (10-25 minutes). 'Hair Magic' conditions the hair, giving it a lovely sheen. Lasts for weeks.

Also in the Progressive range are Smoky Gray, for giving glamorous, even tones to grey hair, and Damson for a deep auburn effect on black, dark or medium hair.

From all wholesalers

Price 2/8 (inc. P.T.) Retail 4/-

Complete with directions and colour chart

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The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 171

February 28, 1959

No. 4123

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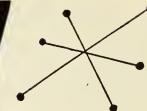
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Volume 171

FEBRUARY 28, 1959

No. 4123

"Ruin of Saccharin Industry!"

FOOD INDUSTRY'S CONCERN AT A REPORT

STRONG opposition is proposed by the Food Manufacturers' Federation, on behalf of the soft drinks industry, against some of the recommendations made in the Food Standards Committee's Report on Soft

Drinks (see p. 228).

The Federation claims that the suggested prohibition of the use of saccharin would deprive the trade of one of its traditional materials, increase prices to the consumer and "ruin the saccharin industry of this country" because it would remove two-thirds of the home market for saccharin. Of criticisms concerning nutritional claims made on behalf of glucose drinks the Federation states that the claims are fully borne out by the continued recommendation of the products by doctors for restoring energy during sickness or convalescence. "Those types of drinks should have separate provision from other soft drinks as they are not sold purely for refreshment," says the Federation. The Federation maintains that there is no justification for altering the general principles which at present govern the industry. The abandoning of minimum standards now applicable to carbonated beverages and merely demanding a declaration of ingredients on labels would be a retrograde step; furthermore the Federation believes compulsory declaration of a soft drinks fruit content is not practicable.

Import Duties

TEMPORARY EXEMPTIONS LISTED

THE Treasury has made the Import Duties (Temporary Exemptions) (No. 1) Order, 1959 (S.I., 1959, No. 270), which provides that certain chemicals classified under Tariff Headings 28 and 29 including the items prednisolone diethylaminoacetate, ouabain, sparteine sulphate and yohimbine hydrochloride, shall be temporarily exempt from import duty chargeable under the Import Duties Act, 1958, until October 1. The Order also provides that photographic film base of cellulose acetate shall not be chargeable with import duty at a rate greater than 10 per cent. ad valorem until October 1 and also corrects certain errors in the Schedule to the Import Duties (Temporary Exemptions) (No. 1) Order, 1958 (S.I., 1958, No. 2076).

Shopkeepers' M.P.s?

UNION'S PLANS TO CONTEST ELECTION

THE National Union of Small Shop-keepers has decided to nominate three

parliamentary candidates for the next general election. Speaking at Nottingham on February 22, Mr. T. Lynch (the Union's president) mentioned two women each of whom had been evicted from their shops without compensation by their local councils. He said that those evictions were one reason for the Union's decision. The Union's election manifesto would include two main points: That shopkeepers on weekly or quarterly tenancies should be paid 100 per cent. compensation if evicted under the Town and Country Planning Act; and that all people earning up to £1,000 a year should be free of income tax. "Wage earners up to that point in the middle classes are already heavily taxed on the goods they buy," he commented.

National Formulary

DOCTORS TO TRY BOTH EDITIONS

DOCTORS are to receive copies of the alternative edition of the British National Formulary in which the preparations are arranged according to their pharmacological use. That is in addition to the standard edition of the current Formulary which was supplied

in 1957, so that the comparative usefulness of the two editions to prescribers may be ascertained. The decision as to which edition of the next revision of the Formulary is to be distributed to doctors is being taken in October after consultation with the British Medical Association when the opinion of the profession will be known.

Co-operation in Science

DUKE OF EDINBURGH'S REVIEW

THE Duke of Edinburgh addressed the annual meeting of the Pakistan Association for the Advancement of Science, held in Karachi on February 7 on "Scientific Co-operation Within the Commonwealth." The Duke referred to the many Commonwealth conferences that had been held from 1909 to the present day. There were now, he said, three Commonwealth Institutes and ten Commonwealth agricultural bureaux, each attached to an institute or laboratory or university department. During the 1939-45 war, British Commonwealth scientific offices had been formed in London and Washington, and they were "without doubt the most lively force in Commonwealth scientific co-operation at the present time.' Five more conferences had stimulated scientific co-operation. They were a Conference of Commonwealth Scientific to the Parall Scientific Teachers and Scientific Teachers and Scientific Teachers. ists called by the Royal Society in London in 1946; a conference immediately following that and called by the Commonwealth Governments to discuss matters arising from it; the Royal Society's Scientific Information Conference of 1948, which had suggested the



RETIREMENT PRESENTATION: Mr. Hugh P. Corrigan (president, Pharmaceutical Society of Ireland) presents Mr. Hugh G. Smith with a radio set on the latter's retirement as Press recorder to the Society. On the set is the inscription "Presented by the Council of the Pharmaceutical Society of Ireland to Hugh G. Smith in recognition of valued services as Official Press Recorder to the Society for twenty-seven years."

Indigestion?

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the discomfort from flatulence,
heartburn, acidity and stomach
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Indigestion Tablets today.
Only from chemists 1/4 and 2/6.
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PRIZE-WINNING ADVERTISEMENT: The advertisement for Moorland indigestion tablets here shown was adjudged the best in 1958. It won the trophy in the 1959 Layton Awards competition. A record number of advertisements (1,560) was received by the organisers of the competition.

formation of a standing committee on information services in order to provide machinery for the exchange and co-ordination of ideas and information; a British Commonwealth Scientific Conference held in Australia in 1952, when, amongst other things, it had been agreed that developments should be watched in industrial microbiology; and the fifth (an outcome of the Commonwealth prime ministers' meeting in 1957) a meeting of Commonwealth scientists in 1958 to discuss the use of nuclear energy for civil purposes. The Duke pointed out that no less than forty-two Nobel awards had been won by Commonwealth scientists.

IRISH NEWS THE REPUBLIC

Drug Association

DELEGATE MEETING IN DUBLIN

A DELEGATE conference of the Irish Drug Association, held in Dublin recently, was attended by representatives from all parts of the twenty-six counties, and motions dealing with the Health Acts, the different policies of manufacturers and distributors, veter-inary matters, and existing legislation as it affected pharmacists, were discussed. Mr. P. McAuliffe (president), who was in the chair, recalled that the Irish Drug Association was this year celebrating the golden jubilee of its foundation. The discussions opened on motions put forward by Galway Pharmaceutical Chemists' Association:
"That the Association deplores the policy of firms in rcleasing to outside channels, items which have been established by chemists"; "That we object to the policy of some cosmetic firms of confining lines to a limited number of shops"; and "That the Galway Association requests the I.D.A. to give full support to the Professional Representatives Association." Mr. M. Fahy and Mr. G. O'Neill having spoken on those motions and the situation in Galway over the past few months, Mr. McAuliffe replied by outlining the position of the I.D.A. in relation to the issues raised. Any decisions reached by the meeting would be implemented by the Committee of the I.D.A. provided they could legally be made effective. County Kerry Chemists' Association urged that the I.D.A. should co-operate with distributors of pharmaceutical goods with a view to effectively stopping leakages; and pointed out that the pharmaceutical chemists of exerted their right to their veterinary tradition; "to investigate the policy of the Veterinary College in Dublin in relation to pharmacists; and to examine the practice of excessive sampling to doctors." The operation of the Health Act and its adverse effect on pharmacists, together with veterinary matters, were brought up by the West of Ireland Chemists' Association. Limerick

Retail Chemists' Association also raised the question of payments to pharmacists under the Health Act, supplies from dispensaries, and low profit margins on proprietary medicines. Donegal Association tabled for discussion the question of establishing a liaison between pharmacists and the medical and veterinary professions; the differences in prescription prices and prices for antibiotics between Northern Ireland and the Republic; lines confined to veterinary surgeons, and free offers without prior contact with chemists.

THE NORTH

C.F. Committee

THE LAST GATHERING

Northern Ireland Chemists Federation committee met together as such for the last time on February 18, when they were joined by members of the Ulster Chemists' Association executive committee, representatives of local C.F. wholesalers and their ladies, at an informal dinner and social in Belfast. Mr. C. L. Gordon-Rattie (chairman of the committee) presided. Welcoming the guests, the chairman expressed regret at the turn events had taken in relation to C.F. and paid tribute to the work of the Northern Ireland committee, thanking especially the foundation members, Messrs. Fred. Storey, C.B.E., J. D. Pollock (wholesaler representatives), and R. J. Jeffers and C. J. Hall (manufacturer representatives), for their long service. Later Mr. J. Caldwell, who was the Northern Ireland representative on the C.F. council for the past ten years, was presented with a gold wristlet watch by Mr. J. A. Brown (president, Ulster Chemists' Association) and Mrs. Caldwell received a brooch from Mrs. J. A. Brown. Mr. Brown said that C.F. owed a great deal to Mr. Caldwell, for his work over the years, "in fact to think of C.F. in Northern Ireland was to think of Jack Caldwell." On behalf of the other members of the committee and U.C.A. members, he had pleasure in asking Mr. Caldwell to accept the watch as a small token of the regard in which he was held and of appreciation of his services.





Mr. C. L. Gordon-Rattie (chairman of the Northern Ireland C.F. Committee) with Mr. J. Caldwell at the Committee's final get-together. Right: Members of the committee (standing, Messrs, J. Caldwell, C. J. Hall, R. J. Jeffers, W. J. Moffett, M. C. Mooney, C. L. Gordon-Rattie (chairman); seated, Mr. J. D. Pollock, Miss A. E. Strachan (secretary) and Mr. Fred, Storey).

THIEVES twice raided the pharmacy of B. W. E. Beard, Ltd. within four days recently taking a camera the first time and cosmetics the second.

PERFUMES, cosmetics, cameras and shavers to a total value of about £100, were stolen when thieves forced an entry into the pharmacy of Latewards, Ltd., 389 Ashton New Road, Manchester, on February 19.

OVERSEAS NEWS

COMMON MARKET COUNTRIES

Basis for Integration of Pharmacy

A SIX-POINT resolution defining the basic principles essential before integration of the pharmaceutical profession within the six countries comprising the Common Market has been forwarded to the president of the High Assembly of the Common Market organisation. The six points are:

1. Pharmacy is a liberal and independent profession founded on the university;

In the interest of the patients, medicaments require the presence of the pharmacist at all stages from manufacture to dispensing in the shop;

3 To permit the pharmacist fully to achieve his rôle, which is to participate in the maintenance and protection of the public health, it is indispensable that there should be a judicious redistribution of pharmacies within the territories:

 The free choice of pharmacist by the patient is an absolute principle that must be guaranteed against all moral or material pressure. Professional secrecy must be respected;

5. The relations between the pharmaceutical body and social organisations must be established on the basis of agreements freely entered into and within the limits of the principles enunciated above;

 Remuneration of the pharmacist must be in accord with his responsibilities, his obligations, his mission and his social position.

WEST GERMANY

Market Survey on Suppositories

A MARKET survey upon the use of suppositories in Western Germany has been carried out by a manufacturing organisation, Venning Chemischewerke Witten, G.m.b.H., Witten, Ruhr, Western Germany. The company points out that, within the past five years, the industrial manufacture of suppository preparations in Western Germany has considerably increased. Suppositories are today, it is understood, not only prescribed more frequently by doctors, but preferred by patients, sometimes over oral administrations and more often over injections. The kinds most commonly prescribed (apart except for local application in hæmorrhoidal and vaginal disorders) are primarily those for killing pain and for relieving cramp. During the past two years suppositories have been increasingly used for the administration of sedatives and nerve, heart and asthma preparations. The increased use of suppositories in Germany is attributed in large measure to the availability of suppository excipients superior to the previously ubiquitous cocoa butter.

TOPICAL REFLECTIONS

By Xrayser

Examination Reports

It is to be hoped that the new curriculum and the extended course for the Pharmaceutical Society's diploma will permit of more favourable reports than those issued for 1958 by the boards of examiners for England and Wales on the one hand, and of Scotland on the other (pp. 208-09). Not for the first time, both reports express dissatisfaction with the answers to questions dealing with surgical dressings. In England, the report complains that some candidates gave the impression that they had not handled the materials which they attempted to describe. (It may be legitimate to comment that most of them will never again handle them except in sealed packages as received from the manufacturer.) In Scotland, "nearly all candidates who attempted the question on crêpe and cotton crêpe bandages did not know the structure of those bandages." Bearing in mind the parenthetical aside a few lines back, it may be wondered if some of the time spent on warps and wefts might not be more usefully employed. It is a little distressing to read in the Scottish report that many of the scripts in pharmaceutics suffered from faulty English construction. Lest English readers should imagine that that may be due to the fact that Scotland is a remote part of these islands, I would refer them to the list of successful candidates of July 1958, which indicates that the examinations held in Edinburgh are not exclusive to candidates born north of the border. The stricture, therefore, is all-embracing. Having regard to the high standard of entrance to pharmacy which demands evidence of competence in English, the criticism should be unnecessary. It is perhaps unfortunate that the reports are not themselves free from the same fault.

Small Consolation

It will be small consolation to candidates to read, in the report of the board of examiners for England and Wales, that in one section of the syllabus in which fault was found with their performance, "Schools must bear a part of the responsibility for these faults in a progressive syllabus." It is disquieting to find criticism of that kind making a further appearance, and it is difficult to reconcile the statement with the remark in the Scottish report which says: "Few candidates showed evidence of having undergone a fine educational experience." One of the reasons, and perhaps the best reason, for the extension of the qualifying course from two to three years is that the longer period will eliminate the element of "cramming' that has been associated with the course for some time. It is conceivable that the new conditions will permit of a "fine educational experience" in the future, but one may doubt the justice of the term as applied to the strenuous scramble into which pharmaceutical education had degenerated. The syllabus has demanded such a deep knowledge of such a wide range of subjects that it is understandable that complete understanding has had to give way to reliance on a good memory. (Memo.: Before engaging my summer locum this year I must ascertain whether he displays a marked weakness in the calculations relating to a circuit with finite battery resistance, particularly in considering the distinction between the electromotive force and the potential difference across the battery terminals. That should ensure holidays at home.)

Man Never Is . . .

To the city-bred person, there is a fascination in watching a horse which, with a whole field of luscious pasture to browse in, puts its head over a barbed wire fence in order to crop a small strip of vegetation on the roadside. Yet the desire for something other than that which is available is not confined to the horse. On p. 196 you report the official journal of the Consumers' Association, Ltd., as saying that twenty-one men, all users of electric shavers, took part in a test of a variety of such mechanical aids to masculine presentability, and all expressed "over-all preference" for a brand different from the one they normally used. So the Association sows discontent. The crop will now, perhaps, have to be tackled with a new combine harvester.

TRADE NOTES

Addition to Range.—J. & J. Colman, Ltd., Carrow Works, Norwich, are adding to their range of Robinson's Sicilian lemon juice a $12\frac{1}{2}$ -oz. bottle of saccharin-sweetened.

Available as an Aerosol.—Scott & Turner, Ltd., Andrews House, New-castle-on-Tyne, 1, announce that their Perminex insecticide is now also available in aerosol form.

Shaver Service Agents. — Ronson Products, Ltd., Leatherhead, Surrey, have appointed Begbie Taylor, Ltd., 83 Park Street, Bristol, to be their authorised service agents for Ronson electric shavers in the south-west of England.

Available in Ampoules.—Roche Products, Ltd., 15 Manchester Square, London, W.1, announce that supplies of ampoules of 1 mgm. (0.5 c.c.) Konakion (water-miscible preparation of synthetic vitamin K_1) are now available.

Special Offer.—From March 30. Revlon International Corporation, 86 Brook Street, London, W.1, are launching a special offer of a large-size bottle of "Touch and Glow" at a price reduction of 5s. on the standard price.

Strength of a Solution. — Organon Laboratories, Ltd., Brettenham House. Lancaster Place, London, W.C.2, point out that the 4-c.c. rubber-capped vial of Durabolin contains 25 mgm. per c.c. and not as previously stated in these columns.

Again Subject to Tax.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, state that the Customs and Excise authorities have reimposed purchase tax at 30 per cent, on Episol cream. Episol lotion and dusting powder remain exempt.

Agencies Sought. — Pharmedo-Pak, wholesale dealers in drugs, medicines, 38 Chartered Bank Chambers, Wood Street, Karachi, 2, Pakistan, are interested in acting as representatives of United Kingdom pharmaceutical manufacturers not now represented there.

Dispensing Pack. — A. H. Robins Co., Ltd., 5 Fenchurch Street, London, E.C.3, announce that their new longacting, non-toxic skeletal muscle-relaxant Robaxin, hitherto available only in standard-size bottle of fifty tablets, may now be obtained in a dispensing pack of 500.

Reformulated and Repacked. — J. E. Ellis, Ltd., Regent House, Harrogate, are marketing their Daisy powders under a new red label, which denotes that the product is now made according to a new "plus" formula, presented in a new modern packing, and offers bigger profits. The packs are of two sizes (eight and twenty-four powders).

Distribution Restricted.—Ward, Blenkinsop & Co., Ltd., 37 Queen Square, London, W.C.1, state that, though they were never members of the Chemists Federation, their policy has always been to confine the distribution of their ethical medical products to hospitals, to recognised wholesalers who supply retail chemists and in certain cases to chiropodists.

Sole Distributors. — Cullingfords of Chelsea (Castle Soaps of Cambridge,

Ltd.), Munroe House, Denbigh Street, London, S.W.l. have been appointed sole distributors in Great Britain for the products of *Les Parfums Jacques Fath*, Paris, France. The products are offered only through "the most exclusive shops and salons in London and the Provinces."

Retailers Protected. — Wright, Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1, announce that their Wright's coal-tar soap and Wright's coal-tar liquid soapless shampoo are now available on a sale-or-return basis approved by the Customs and Excise authoritics. Details of the scheme (in operation until April 30) are included in a trade mailing.

A "Reinforced Block."—Thompson & Capper, Ltd., Speke Hall Road. Liverpool, 24, point out that their Binzair is correctly described as "a reinforced deodorant block which is simply fixed to the inside of the dustbin lid," and not as previously stated in these columns. A small tube of special cement is provided for fixing. Binzair does not move when once in position, and is easily replaced when the deodorising compound has volatilised.

Discontinued.—DUNCAN, FLOCKHART & Co., LTD., Wheatfield Road, Edinburgh, 11, announce the withdrawal of their product Haemocones supposi-tories. Products made to the new formula have been shown to become friable on prolonged storage. Retail pharmacists returning their stocks to their wholesaler will receive full credit. — HOWARDS OF ILFORD, LTD., Ilford, Essex, announce that Quinisan tablets have been withdrawn from the company's catalogue and that no supplies are available. — PARKE, DAVIS & Co., LTD., Staines Road, Hounslow, Middlesex, have discontinued issuing the following products: Hypodermic tablets of atropine sulphate, gr. 1/60 (bottle of twenty); diamorphine hydrochloride. grain 1/6 (bottle of twenty) and gr. 1/12 (bottle of 100); hyoscine hydrobromide, gr. 1/200 (bottle of twenty); and morphine sulphate, gr. 1/6 (bottle of 100); as well as evacuant pills, bottle of 500; hay-fever reaction outfit; staphylococcus toxoid (vial of 10 mils "weak"); and surgical lubricant in tube. — WILLIAM R. WARNER & Co., LTD., Eastleigh. Hants. announce that Alka-Zanc has been discontinued.



AT TRADE EXHIBITION: Present at an exhibition organised by John Knox (Stoke-on-Treut), Ltd., in Llandudno recently, were (left to right): Councillor H. Neville, M.P.S. (chairman of local council); Mr. F. W. Tomkinson, M.P.S. (a director of the company) and Mr. Gwilym Hughes (vice-president, Pharmaceutical Society).

Resuscitators for Ambulances.—As a result of a successful trial in 1958, the Scottish Ambulance Service is equipping all its ambulance vehicles in large population centres with portable mechanical resuscitators. Eight have been in use, and the purchase of a further fifty-five in 1959 has been authorised. The resuscitator, the Minuteman, produced by British Oxygen Gases, Ltd., Spencer House, St. James's Place, London, W.1, weighs only 28 lb. and is easily carried to the scene of an accident. It is robust, simple to operate and may be used in confined spaces.

Visual Aids Advisory Service. — The British Institute of Management, 80 Fetter Lane, London, E.C.4, conducts a "Visual Aids Information and Advisory Service" to industry and commerce. Operated by Mr. J. Hopson (a member of the industrial advisory committee of the Scientific Film Association), the service offers expert advice to subscribers on the making, use and availability of industrial films and film strips, and puts inquirers in contact with sources of all types of visual aids. Its register of films and film strips is sectionalised under thirty-five headings, among which are advertising, automation, information to employees, materials handling, retailing and marketing, supervision, and work and method study. Against each item in the register are given technical details, source, hire charges, content and intended audience.

Trading Policy Reaffirmed.—United Chemists Association, Ltd., Cheltenham, Glos, give a reminder that their "chemists only" policy has been adhered to for nearly fifty years—since. in fact, a few chemists had the idea of starting a manufacturing business to supply the private chemist with all his requirements. The idea led to the formation of the company, which started business in Sheffield under Mr. Harold Miller, M.P.S., as managing director. The new venture soon outgrew its premises in Sheffield, and a move was made to Cheltenham as a more convenient centre. There a factory was built. For many years, state the company, "Ucal" and "Harold Miller" were almost synonymous. Mr. Miller " Miller was vice-chairman of the Local Conference Executive when the British Pharmaceutical Conference met at Cheltenham in 1928. Though there have been many changes in the trade in the thirty years that have elapsed since that date, and a new generation of chemists is now in business, the company's policy remains the same. Ordinary shares of the company are held only by chemists, and, under the Articles of Association. Ucal specialities, packed goods and manufactured the remagnitude of the company are distributed solely. pharmaceuticals are distributed solely through the private chemist.

Bonus Offers

O. R. GROVES, LTD., 20 Jermyn Street, London, S.W.I. Sunfresh orange concentrate. Offer of one bottle of Sunfresh lemon glucose drink with each doz. closes March 14.

INFORMATION WANTED The Editor would appreciate information about:

EASTLEIGH enuresis apparatus

NEW PRODUCTS AND PACKS

Topical Steroid.—E. R. Squibb & Sons, Ltd., 17 Old Bond Street, London, W.I, announce that their speciality Adcortyl-A (triamcinolone acetonide), a new corticosteroid for topical application claimed superior to all other topical steroids, is available as a 0.1 per cent. ointment in 5-gm, tube, and as a lotion with Graneodin 0.1 per cent. in 15-c.c. squeeze bottle.

Crokes Laboratories, Ltd., Park Royal, London, N.W.10, announce the availability of two hydrocortisone specialities: Cortoderm (hydrocortisone in Lacto-calamine); and Cortoderm-N (hydrocortisone with neomycin in Lacto-calamine). Each is presented in three strengths (0.25 per cent., 0.5 per cent. and 1 per cent. of hydrocortisone) in a 10-gm. tube. Cortoderm-N is subject to the Therapeutic Substances Act regulations.

Muscle Relaxant with Vasodilator.— John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, announce the introduction of a new speciality Equatrate, a combination tablet containing meprobamate (Equanil) selective anti-anxiety agent and muscle relaxant, and pentaerythrityl tetranitrate (PETN), a long-acting coronary vaso-dilator. Indicated for the control of both the emotional and physical factors which precipitate attacks of angina pectoris, Equatrate is understood to reduce both the number and severity of anginal attacks, to lessen dependence on nitroglycerin and, by breaking the pain-anxiety-pain cycle, to enable the patient to lead a more normal life, with increased exercise tolerance. Each tablet contains 200 mgm, of meprobamate and 10 mgm, of pentaerythrityl tetranitrate. The packs are bottles of fifty and 250 tablets

Antibiotic Throat Lozenges. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, are marketing a new speciality, Trillets brand lozenges,



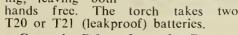
each of which contains the antibiotic framycetin sulphate, 1 mgm.; the analgesic Xylocaine brand lignocaine, 2.5 mgm.; and a new antibacterial halopenium chloride, 5 mgm. Between them the ingredients are claimed to destroy virtually all the bacteria found in sore throat and infections of the mouth. Framycetin, an antibiotic that is understood not to induce cross resistance to other antibiotics used systemi-

cally, is active against staphylococci, *H. influenzæ*, *H. catarrhalis* and *P. vulgaris*. Halopenium chloride, a compound discovered at the Wellcome Research Laboratories, is almost nontoxic and is active against streptococci. It is fungistatic in the concentration used in the lozenges. Trillets have a sialogogue base, the antibacterials and analgesic being carried by the increased saliva to the site of infection. The pack is a tube of fifteen.

A "Junior" Variety.—To meet a demand by pædiatricians and general practitioners for a "junior" form of Welldorm suitable for small children and babies, Smith & Nephew. Ltd., Bessemer Road, Welwyn Garden City, Herts, announce the introduction of Welldorm (pædiatric) tablets, scored, each containing gr. 2½ of dichloral-phenazone and, like the 10-gr. tablet, die-stamped "Welldorm." Welldorm is claimed safe for all agc groups, having no delaying effects on bowel function and being free from other undesirable side effects. The tablets are available in containers of twenty-five and 500.

"Angle-head" Torch. — A new Drydex torch, type 2AT20, introduced by

Chloride Batteries, Ltd., Grosvenor Gardens, House. London, S.W.1, is rnade of ivorycoloured alkathene plastic with a contrasting ma-roon-coloured lens ring and bottom cap, and an "angle head." It has a bottom-cap loading and pre-focus bulb. spare bulb with fitted in the bottom cap, and a threeposition switch. A belt clip allows it to be fixed to a belt or other part of the user's clothing, leaving both



Cosmetic Colour from the East. — What they describe as "a new colour straight from the glamorous gardens of the East" has been introduced in lipstick and nail enamel by Revlon International Corporation, 86 Brook Street, London, W.l. The shade is known as "butterfly pink," and is described as a "really new, radiant, lively pink which makes you feel you've never had the joy of wearing pink before." The lipstick is available in Lanolite and lustrous varieties, and as Futurama refill, and the nail enamel is issued in frosted and regular varieties.

Cologne and Talc. — Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, are introducing a new fragrance sequence (perfume, perfume Cologne and talc) under the name Hypnotique. This being Max Factor's Golden Jubilee year, Hypnotique is presented "in golden elegance," the perfume in ½-oz. pyramid-shaped bottle with ground

glass-stopper applicator and phial with gold screw top; the perfume Cologne in obloid 2-oz. and 4-oz. bottles. All are enclosed in gold foil bearing a "kaleidoscopic" pattern of black and white. Retail sales are scheduled to commence on March 16.



A NEW PRESENTATION: Illustration shows the new pack for Morny's "Gardenia" toilet soap, including the flower motif. The design on the inside of the lid also appears on its outside. The makers are Morny, Ltd., 22 Wadsworth Road, Perivale, Middlesex.

A "Lighthearted" Pink.—Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1, have produced a lipstick and rouge shade "matched to the colours of lighthearted fashions." Named "Ananda" (a Sanskrit word meaning joy and happiness) it is a "vivacious colour, clear, rosy and fresh, but warm in tone, with a tinge of red coral, but not too orange." It has "enough sunny colouring to be the perfect complement to the greens, yellows, milky orange, mandarin and warm pinks that are high fashion, but is rosy enough to provide a delicate contrast."

Household Cleaner. — Crosfields (CWG), Ltd., St. Bridget's House, Bridewell Place, London, E.C.4, are launching a new household cleaning product, Handy Andy, for use on floors, paintwork, sinks, baths, cars, etc. Handy Andy is a liquid preparation presented in a special bottle with nonslip grip. It is being launched in the London, Birmingham and Southern television areas.



ANOTHER "DOUBLE ROLL": Kimberly-Clark, Ltd., Larkfield, Kent, announce the introduction of double Aqua-tint and double yellow rolls of Delsey toilet tissue. The double rolls are packed eighteen to the case.

LEGAL REPORTS

Prison for Addicted Anæsthetist

Dr. Peter William Spencer Gray, Osidge Lane, London, N.14, was sen-tenced at the Central Criminal Court recently to twelve months' imprisonment after pleading guilty to the man-slaughter of Keith Terence Goold (aged two-and-a-half years), Markhouse Avenue, Walthamstow, on October 16. 1958. For the prosecution it was said that Gray was consultant anæsthetist at the Chase Farm hospital, Enfield, and for seven years had been addicted to the anæsthetic drugs which he administered in the course of his work. During the operation on Keith Goold he failed to switch over from an empty to a full cylinder of oxygen, with the result that for three or four minutes the supply to the child was cut off. That was a direct cause of death a month later. During the operation the doctor was seen to remove the connecting tube between the apparatus and the child's face and to put the tube into his own mouth. That happened more than once. The following day Dr. Gray was suspended, and it was then he admitted that for seven years he had been addicted to anæsthetic drugs.

COMPANY NEWS

Last year's figures in parentheses

NU-SWIFT, LTD.—Messrs. H. G. Stage and F. Tompkins have been appointed directors.

HORLICKS, LTD. — Interim dividend for the year ending March 31 is raised to 10 per cent. (from $7\frac{1}{2}$ per cent.).

DIXOR LTD. — Mr. M. Debacq (chairman) reports that advertising expenditure was increased during 1958 and there is every indication that sales will continue to expand.

COOPER, McDOUGALL & ROBERTSON, LTD.—Mr. Charles Marshall Carr has been appointed a deputy managing director, with effect from March 1.

HOWARDS OF ILFORD, LTD.—Messrs. E. W. M. Fawcett (technical director) and H. P. P. Hodgkins (commercial director) have been appointed to the board of the parent company, Howards & Sons, Ltd.

R. B. PULLIN, LTD.—In spite of the difficulty in securing adequate profit margins Mr. R. B. Pullin (chairman) states that the parent company's order book was maintained at a satisfactory level in 1957-58, and the plant is fully occupied.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. Harold Smith, joint managing director of the company's general chemicals division for the past two years, has been appointed chairman of the division from February 12.

BOOTS PURE DRUG CO., LTD. A second interim dividend for the half year ending March 31 of 3 per cent. is to be paid. The directors point out that the dividend is being maintained at that level to reduce the disparity between the interim and final dividend payments, and that it carries no impli-

cation in regard to the total dividend for the year.

NATIONAL CO - OPERATIVE CHEMISTS, LTD.—For the first time, sales topped £1 million in the year ended October 1958 and at £1,011,407, showed an increase of 20·1 per cent. over the previous year. At the annual meeting the chairman (Mr. H. H. Flynn) stated that with the continued support of members he was confident that the year ahead would be one in which the Co-operative Society's activities would be further developed.

BORAX (HOLDINGS), LTD.—The group reports a trading profit of £689,838 (against £45,575) for the three months ending December 31, 1958, after depreciation, amortisation, etc., of £489,934 (£371,678) and book losses on devaluation of the French franc of £37,091. Net profit after tax is £330,962 (£38,671). Though all the difficulties at the new plants at Boron, California, have not been overcome operations continue to improve, the directors state. The demand for Boron products was well maintained and the tonnages delivered by the group's operating companies are satisfactory.

MONSANTO CHEMICALS, LTD.—A second interim dividend on the company's ordinary shares of $8\frac{1}{2}$ per cent. is announced, making the total dividend $13\frac{1}{2}$ per cent. on the ordinary capital in respect of 1958 (same). Net sales for the year are £15,426,633 (£15,683,272); net income, £1,314,949 (£1,706,554), less taxation, £685,385 (£842,180). Direct export business accounted for 35 per cent. of total sales. The chairman (Sir Miles Thomas) states that the year 1958 was one of consolidation for their manufacturing resources.

New Companies

P.C. = Private Company; R.O. = Registered Office

D. JONES (POPLAR), LTD. (P.C.).
—Capital £3,500. To carry on the business of chemists and druggists, etc. Subscribers: David Jones, M.P.S., David V. Jones, and James Walsh, M.P.S. David Jones is the first and permanent director. R.O.: 267 East India Dock Road, London, E.14.

G. & E. BUDGEN, LTD. (P.C.).—Capital £6,000. To carry on the business of dealers in proprietary medicines, chemicals, ointments, etc. Directors: Eric R. Hill, M.P.S. (a director. Eric Hill, Ltd.), George A. Budgen and Doris E. Budgen. R.O.: 30 Gildredge Road, Eastbourne.

BUSINESS CHANGES

TIMOTHY WHITES & TAYLORS, LTD., are closing their branch pharmacy at 140 Gibbet Street, Halifax, on February 28.

ST. CUTHBERT'S CO-OPERATIVE ASSOCIATION, LTD., have transferred their pharmacy at Bonnyrigg, Midlothian, to 85 High Street (from 21 High Street).

MR. J. BADYAN, M.P.S., has acquired the pharmacy of T. C. Thomas (Chemists), Ltd., 25 Station Parade, Queensbury, Edgware, Middlesex, and is to trade under his own name.

Messrs. Thomas continue to trade at 252 Streatfield Road, Kenton, Middlesex.

SMITH & HILL (CHEMISTS), LTD., are to open an "ethical" distribution depôt at 79A Urban Road, Hexthorpe, Doncaster, on March 2 (telephone: Doncaster 65261). Mr. A. E. Foulkes who has been appointed the company's northern manager is to be in charge of the depôt.

Appointments

ILFORD, LTD., Ilford Essex, have appointed Mr. L. Beadle manager of their dealer sales section, and Mr. E. M. Wall, manager of the finisher sales section. Mr. C. Morris continues to control the dealer-finisher sales department.

CIBA LABORATORIES, LTD.. Horsham, Sussex, have appointed the following additional representatives: Messrs. G. M. Dee, B.Pharm., M.P.S. (South Lancashire and North East Cheshire); D. G. Hodkinson, M.P.S. (South Manchester and mid-Lancashire); D. E. McLeod, M.P.S. (West and South-west London); T. H. Rosser, M.P.S. (South-west Wales); J. F. Smith, B.Sc., M.P.S. (South Glasgow and mid-Scotland).

THE pharmaceutical division of Leda Chemicals, Ltd., Berk House, Portman Square, London, W.1, have appointed the following representatives: Mr. W. M. Lorimer (London, including teaching hospitals); Mr. D. Noel-Bevan (North-west Midlands); and Mr. A. L. Inman (Home Counties).

BENGER LABORATORIES, LTD., Holmes Chapel, Ches, have appointed

Mr. John Yorwerth their marketing control-ler. Mr. Yor-werth, who joined the company nearly six years ago as medical repre-sentative and later set up and controlled their public relations department is to be responsible for all proand motional marketing



Mr. J. Yorwerth

aspects of Benger products throughout the world.—Mr. Gordon McAlpine has been appointed to fill the newly-created position of field manager. Mr. McAlpine, who joined the company as a medical representative in 1956 has represented the company at home and overseas.

OVERSEAS VISITS

DR. THOMAS KERFOOT (president, Association of British Pharmaceutical Industry), accompanied by Mrs. Kerfoot, leaves on March 4 for the United States where he is to be a guest speaker at the annual meeting of the (U.S.) Pharmaceutical Manufacturers' Association at Boca Raton, Florida, early in April. It is the first time that the president of the A.B.P.I. has been the official guest of an American pharmaceutical manufacturers' organisation. He arrives back in Britain on April 20.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

INFORMATION regarding the number of injuries attributed to the immunisation against diphtheria was not available stated MR. DEREK WALKER-SMITH (Minister of Health) in a written answer to MR. S. P. VIANT on February 18. Seven deaths in the years 1941–57 were attributed to complications following inoculation against diphtheria. To other questions from MR. VIANT, the Minister stated that at the end of 1957 it was estimated that just under 2 million children under five years of age remained unvaccinated against smallpox. None of the population were vaccinated against poliomyelitis until 1956 when 0.4 per cent., all children, received two injections. In 1957 a further 2-7 per cent. were similarly treated.

Tropical Products Institute

MR. A. T. LENNOX-BOYD (Secretary of State for the Colonies) in a written reply to SIR JOHN R. ROBINSON on February 18, indicated that on April 1 the Tropical Products Institute would become part of the Department of Scientific and Industrial Research. On that date the Colonial Products Council would be dissolved and a new D.S.I.R. committee would be appointed to look after the Institution.

Purchase Tax

MR. G. D. N. Nabarro asked the Chancellor of the Exchequer if he would examine the anomalous situation that whereas the supply of medicines under the National Health Service was subsidised by the Government, medicine purchased outside the scheme was purchase-taxed at 30 per cent.; and whether in view of the desirability of freeing from tax anything bought to relieve suffering, promote health, or reduce unnecessary expenditure under the National Health Service he would abolish or reduce the purchase tax on drugs and medicines. In a written reply on February 19, MR. F. J. ERROLL (Economic Secretary, Treasury) stated: "I would not be expected to anticipate the Budget statement."

On the same day, in another written reply to a question by Mr. NABARRO, Mr. Erroll indicated that in the financial year 1950-51 purchase tax yielded 7.6 per cent. of the total ordinary revenue. The figure for 1956-57 was 8.9 per cent., 1957-58, 9.2 per cent. and the Budget estimate for 1958-59 was 9 per cent.

Weights and Measures Survey

MR. J. HOWARD asked the President of the Board of Trade on February 19 what progress was being made with the proposals for weights and measures regulations based on the Hodgson Committee's report. MR. J. RODGERS (Parliamentary Secretary, Board of Trade) stated that the statutory consultations undertaken in connection with the proposed regulations had revealed many practical difficulties in framing workable regulations under existing legislation, "as well as gaps in our knowledge about what the consumer really wants." The President of the Board of Trade had therefore arranged for a

social survey to explore the habits and needs of consumers in present conditions, which had changed in some ways since the Hodgson Committee collected its evidence. "In the light of the Survey, it may prove that the best course is to proceed direct to a Bill which can cover the whole field including enforcement, non-food stuffs and wholesale transactions."

Tooth-paste Advertisements

Following questions by MR. F. NOEL-BAKER on February 23, MR. R. THOMPSON (Parliamentary Secretary, Ministry of Health) referred to the decision by the Independent Television Authority, acting on the advice of its advertising advisory committee, that a number of tooth-paste advertisements on television should be withdrawn or modified because they were considered misleading.

Treatment of Mental Health Patients

During question time on February 23, THE MINISTER OF HEALTH stated he had asked for and received the script of the B.B.C. television programme in which an ex-patient of a mental hospital made charges of "violent and brutal treatment of patients." He said he was in touch with the Director-General of the B.B.C. about certain questions which had arisen from the programme "In order that full inquiries may be made. I have asked to be given full particulars of the incidents referred to in the programme."

Rating and Valuation Bill

The Rating and Valuation Bill was read a second time on February 23. The purpose of the main clause being to defer revaluation of house property by two years from 1961 until 1963 following advice given to the Government by the Valuation Office of the Board of Inland Revenue.

Hospital Sterilising Techniques

MR. B. R. BRAINE asked the Minister of Health what action he proposed following publication of the Nuffield Provincial Hospitals' Trust Report which revealed that the sterilising techniques employed in certain hospitals were inadequate and were contributing to the present high incidence of hospital infection. Mr. DEREK WALKER-SMITH stated in a written reply on February 23 that the report was well known to hospital authorities and the attention of the senior administrative medical officers of regional hospital boards had been specifically drawn to and in allocating sums to those boards for their revenue expenditure in 1959-60 I have asked them to have regard to the report in determining their expenditure.

Testing of Drugs

MRS. H. SLATER asked the Minister of Health what steps were taken to test new drugs before they were officially recommended to the medical profession. MR. DEREK WALKER-SMITH, in a written answer on February 23, stated: "No such recommendation is made. The therapeutic value to be placed on a remedy is a matter for

professional decision in the light of experience, published reports, etc." MRS. SLATER also asked the Minister of Health if he was aware of the high cost of drugs supplied by United States firms; and what steps were taken to control them. THE MINISTER replied that products which involved research and expensive plant for their manufacture were necessarily expensive in their early years. Many preparations supplied by British-based subsidiaries of United States firms were in that category. "In order to obtain general supplies for the National Health Service at reasonable prices, I rely where appropriate on ordinary contracting arrangements, and for the rest on arrangements worked out in co-operation with the pharmaceutical industry."

Common Cold

MR. SYDNEY IRVING asked the Minister of Health on February 23, what progress had been made in the use of the drug Interferon in the treatment of common cold. The Minister in his reply stated that research on the substance had not progressed to the stage when the product could be tried in man.

Anti-measles Vaccine

In another reply to MR. S. IRVING, the MINISTER OF HEALTH indicated that while he understood progress had been made in the preparation of an antimeasles vaccine, he was not aware of any proposal to manufacture it for general use.

Television Advertisements

A Bill to prohibit the interruption of television programmes by commercial advertisements and to regulate the intervals between advertisements was introduced on February 24 by CHRISTOPHER MAYHEW. He claimed that the "unlawful interruption of a programme by a commercial advertise-ment" had become a "public nuisance which ought to be stopped." After citing alleged "unnatural breaks" he referred to some advertised items and added "tooth-paste advertising, for in-stance, has aroused the strongest comments from dentists and the British Dental Association. Some aspects of medical advertising, about tranquillisers, for instance—drugs such as Persomnia and P.R.—have aroused widespread anxiety among doctors and the British Medical Association." He continued "one of my honourable friends reminds me of the existence of a soap called Camay, which is supposed to contain an ingredient which costs £9 an ounce. . . . This dangerous soap, in fact, contains a chemical which gives many people dermatitis." The Bill was read a first time.

Hospital Building Programme

MR. D. L. S. NAIRN asked the Secretary of State for Scotland, on February 24, what was the expected cost of the hospital building programme for the years 1959-60 and 1960-61.

MR. J. MACLAY (Secretary of State for Scotland) stated that the expenditure on the hospital building programme in Scotland in each of the years 1959-60 and 1960-61 was expected to be about £3.2 millions, including all expenditure on capital equipment.

DEATHS

BEATTIE.—Suddenly, at his home, Main Street, Fintona, co. Tyrone, Northern Ireland, on February 22, Mr. Thomas King Beattie, M.P.S.N.I. Mr. Beattie qualified in 1912, and was also a licentiate of the Pharmaceutical Society of Ireland.

CAMPBELL.—On February 18, Mr. Alexander Rennie Campbell, M.P.S., 12 Mount Grove, Edgware, Middlesex. Mr. Campbell, who qualified in 1914, was employed by Savory & Moore, Ltd., 143 New Bond Street, London, W.1.

CARTWRIGHT. — On February 8, Miss Dorothy Cartwright, M.P.S., 503 Edge Lane, Droylsden, Manchester. Miss Cartwright qualified in 1928.

COOKE.—At his home, 16 Doddington Road, Wellingborough, Northants, recently, Mr. William Arthur Cooke, M.P.S., aged eighty-nine. Mr. Cooke first moved to Wellingborough in 1912 and practised as a chemist at 39 Market Street until his retirement in 1946. He previously worked at Newport Pagnell, and before that at Eastbourne, where he made up prescriptions for, among others, King Edward VII. Mr. Cooke was a past-master of the Hatton Lodge branch of Freemasons. He was one of the first presidents of the Northamptonshire Chemists' Association, and was several times chairman of the Northamptonshire Insurance Committee. He qualified in 1892.

FARRELL. — Recently, Mr. Robert Farrell, L.P.S.I., the Medical Hall, Kiltimagh, co. Mayo, Eire. Mr. Farrell qualified in May 1918.

GIBSON. — On February 18, Mr. Charles Edward Gibson, M.P.S., 39 Elmcroft Avenue, Wanstead, London, E.11. Mr. Gibson qualified in 1937.

JONES. — On February 18, Mr. Charles Henry Jones, 3 Victoria Close, New Barnet, aged sixty-four. Mr. Jones, who was a director of May, Roberts & Co., Ltd., Stamford Hill, London, N.16, died suddenly, after attending a meeting of the Association of British Pharmaceutical Industry. Hc was a past-president of the Chemists Federation and would have completed fifty years service with Messrs. May, Roberts at the end of this year.

MILLS.—On February 22, Mr. W. H. Mills, F.R.S., Fellow and President of Jesus College, Cambridge, 1940–48 and emeritus reader in stereochemistry in the University. He was president of the chemical section of the British Association in 1932, and of the Chemical Society in 1943 and 1944. He was elected a Fellow of the Royal Society in 1923.

MURLESS. — On February 3, Mr. Lionel Ambrose Murless, M.P.S., 46 Dane Court Road, Parkstone, Dorset. Mr. Murless qualified in 1922.

SHEPHERD.—On February 13, Mr. Eric Leech Shepherd, M.P.S., 48 Bury New Road, Prestwich, Manchester. Mr. Shepherd served his apprenticeship in Littleborough, near Rochdale, qualified in 1920, and bought his shop in Bury New Road in 1923, continuing to run it until two years ago.

SPILSBURY.—On February 9, Mr. Frank Edgar Spilsbury, M.P.S., 97

Castle Road, Scarborough. Mr. Spilsbury qualified in 1915.

Mr. J. Anderson Stewart (secretary, Middlesex Pharmaceutical Committee), writes: It was with deep regret that I learned of the death of my former em-ployer. After having been in Leamington, Mr. Spilsbury set up in business in North Marine Road, Scarborough, over thirty-five years ago. I spent a season with him as an improver in 1927 as a result of answering an advertisement in THE CHEMIST AND DRUG-GIST. He then initiated me in a most kindly way into the differences between pharmacy in Scotland and the insurance dispensing of that year. He retired about seven years ago on account of indifferent health. I shall always retain very pleasant recollections of his gentle nature and goodwill towards all with whom he was associated.

PERSONALITIES

DR. AUSTIN SMITH (editor, Journal of the American Medical Association) has retired after ten years in that office.

MR. T. B. MURRAY, M.P.S., a member of Plymouth City Council has been reappointed to the Plymouth special hospital management committee.

MR. FREDERICK V. BUTTER-FIELD, M.P.S., Harrogate, Yorks, believed to be England's oldest working chemist, celebrates his ninety-sixth birthday on February 28. He began his business at 5 Station Bridge nearly seventy years ago. Born in Thirsk, he worked there before joining a company of multiple chemists for which he worked in Harrogate until he opened his own shop. Mr. Butterfield qualified in 1885.

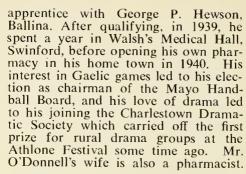
MR. JOHN P. O'DONNELL, who was recently co-opted to the Council

of the Pharmaceutical Society of Ireland, has made a name for himself as one of the most active young men in pharmacy in the West of Ireland. As one of the joint secretaries of the West of Ireland Chemists' Association and now as its president, he has



the Shannon. For the past five years, Mr. O'Donnell has served on the committee of the Irish Drug Association before going to Shrewsbury Road. A native of Charlestown, co. Mayo, he began his pharmaceutical career as an

CELEBRATING A RE-CORD YEAR: Scene at a function held at the works of N. C. Brown, Ltd., shelving specialists, Heywood, Lancs, recently, to celebrate a record-breaking trading year. The affair was well attended by over 200 local business men including a Member of Parliament for Heywood and Royton (Mr. Tony Leavey).



MR. PATRICK J. MORGAN, who captains the Irish Chemists' Golfing

Society this year, is a Dubliner who started behind the pharmacy counter of the late James Dwyer. Dwyer, Ballsbridge, and from where he qualified in 1932. After some experience of pharmaceutical manufacture gained in London, Mr. Morgan joined



Abbotts (Eire), Ltd., in 1934, of which company he is now a director. "Paddy" Morgan is a swimmer of international repute, having represented Ireland in the 1932 Tailteann Games. For many years now he has been a stalwart of the Golfing Society. He is a member of Elm Park Club and plays to a middle handicap.

MR. R. D. GAIGER, M.P.S., Hythe, Kent, gave a talk on "Poisons" to members of Hythe Congregational Church Guild recently.

SIR THOMAS BOWEN, who has been appointed to the newly created post of marketing executive of the Pyrethrum Board of Kenya, will have his office at the board's headquarters in Nakuru, Kenya, although his duties will take him to many parts of the world on behalf of the board.

MR. R. C. CHIRNSIDE, F.R.I.C., who is chief chemist of the research laboratories of the General Electric Co., Ltd., Wembley, has been nominated by the Council of the Society for Analytical Chemistry as president designate to take office at the annual meeting in March. He has been a member of the council of that Society on a number of occasions since 1938 and was a vice-president in 1946-47. 1951-52 and 1957-58. He has also been a member of the council of the Royal Institute of Chemistry on a number of occasions since 1944 and was a vice-president from 1956 to 1958.



Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Passive and Active Salesmanship

SIR,—I was interested in your recent reference to new methods of distribution (C. & D., February 14, p. 177) but surprised that you did not mention what in my opinion is the basic reason for such changes—the growth in advertising! More and more the manufacturers are able to influence the public's buying habits, and retailers, even if they wish, find it difficult to resist the reflex pressure of such publicity. The manufacturer is taking the place of the retailer when it comes to "converting" the customer and, by the use of market research and modern techniques, he is providing distinctive packs which are instantly recognisable and which tie up with the advertisements. That trend, together with the fact that few wholesalers have any special interest in the products they handle, and therefore play a more or less passive rôle, has allowed the manufacturer to gain his ascendancy. The increased number of consumer-advertised commodities has also a tendency to make it more difficult for the retailer to develop his own specialities, and he, too, shows signs of becoming a passive distributor. The retailer who resists that tendency, and who attacks the job of "positive" selling, may well register an outstanding success, but to do it he must adopt some form of advertising of his own. That to a pharmacist, as distinct from the generality of traders, must be an operation of great delicacy in view of the professional side of his activities.

Chemists' "Hidden Profit"

SIR,—No one will cavil at the Department of Health for Scotland introducing revised rates for larger packs of certain proprietaries much in use. At the same time it should be remembered that the chemists who are buying in the larger packs are taking the risk of being left—when medical prescribing changes, as it does virtually overnight —with considerable quantities of these same proprietaries. It is a case of "Heads I win, tails you lose" so far as the Department are concerned. It would be a nice gesture—and an illuminating one—if the Department of Health would make a survey of the broken bulk lying on the shelves of pharmacists, especially those who here pharmacists, especially those who, because of being situated in towns and villages removed from where they can send the message boy along to the wholesaler for "a dozen tablets of 100 mgm. Stovies." are left with seventy-six where the doctor has ordered twenty-four and the smallest pack is 100. Surely it is only fair that, since the pharmacists are prepared to agree to costing at prices for bigger packs of the more popular proprietaries, they should be allowed the price for the smallest pack of the lesser prescribed proprietaries when the prescription is for less. In any profession there are black sheep, but surely the average pharmacist could be trusted to mark the script boldly "S.P." (specially procured) 100 or fifty pack when the script is for, say, thirty-six. The medical profession seems more prone to fashion changes than any women. It is quite noticeable, after a medical representative has been round that, provided hc can recite the chemical composition of the particular preparation (he may be very convincing but probably knows as little about its effect as the doctor to whom he is speaking) scripts roll in, then, as suddenly, stop.

A. W. KEITH,

A. W. KEITH, St. Andrews

MUSEUM PIECE



Wooden mortar, about 10 in. high, not especially heavy, probably of boxwood. From the collection of Philip Harris, Ltd., 144 Edmund Street, Birmingham, 3.

Wet v. Dry Shaving

SIR,—The suggestion by the Consumers' Association, Ltd., that an electric shaver should be bought only on a trial system (C. & D., February 21, p. 196), would certainly be beneficial to the "consumer" but not to either the manufacturer or retailer. That the prospective purchaser should be allowed to try one make after another for at least a fortnight until one was found that suited him or, if he should not be successful in finding any to his liking. that he should be allowed a credit note from the shop, borders on impudence. Television sets may be sold under such conditions, but for an article so per-sonal as a shaver most men I think, would rightly demand an instrument that had not been all round the countryside. Of course, for customers who do not object to second-hand goods there could be a scheme whereby a number of shavers were set aside for loan, but in that event a hire charge should be made, otherwise it would be too easy,

by trying each of the various makes for a fortnight and going to several distributors, to avoid purchasing a shaver at all. I think that, in their costings, the Association have also left out the charges made to rectify faults once the shaver is out of guarantee. That faults do develop can be verified by looking into any sales-service showroom of a manufacturer. They always seem crowded, at least when I attend with mine! The charges made, too, for spare parts and for service are steep and are the equivalent of many blades and sticks of soap, etc.

OWNER-SHAVER

A Point Made Clear

SIR,—Our attention has been directed to a letter in your publication referring to a patent which has been applied for in respect of a built-in denture brush. We have been advised that the existence of a pending patent application confers no rights upon the patentee by way of enabling him to prevent other people from making or doing what is referred to in his patent application. It only serves to establish a priority date upon which the accepted patent will be based. No monopoly rights exist and no action can be taken against any infringing parties until the patent application has been accepted and sealed, which may be a matter of some years hence. Moreover, the patent will only be accepted and sealed if it is shown that the subject matter of the patent application is both novel and patentable. We think that it is in the interest of the trade that this point should be made quite clear.

KRAUTH CHEMICALS, LTD., Weybridge, Surrey

CAN YOU READ IT?

SENT in by a South-coast chemist the prescription reproduced in part here includes four items, two of which should present little difficulty.

WORLD OPINION ON PROPRIETARIES CONTROL

Dr. Davis reviews the situation in Britain and elsewhere

AT a luncheon of the Proprietary Association of Great Britain in London on February 19, DR. HAROLD DAVIS (Chief Pharmacist, Ministry of Health) drew upon his experiences as co-representative (with Mr. W. G. Honnor) of Great Britain upon pharmaceutical matters under the Western European Union, as adviser on pharmacy in the Gold Coast (now Ghana); and as member of a World Health Organisation group on "The Use of Specifications for Pharmaceutical Preparations" to present a "World's Eye View on Proprietary Medicines."

Various Countries Compared

After explaining that, taking note of recent comment by Xrayser in the C. & D. that a pharmacist occupying a public position "must weigh his public utterances with extreme care," he was not speaking off the cuff but had provided himself with copious notes. Dr. Davis said that his membership of the W.H.O. study group had given him an opportunity to compare requirements in nine countries. Canada had a similar arrangement to that of the UNITED STATES which, in addition to controls similar to those in Britain, inspected manufacturing establishments and had a new Drug Law. In EGYPT a government pharmaceutical section was under the direction of a pharmacist; samples of imports had to be sent to the section and a preparation might, if the analysis conformed with the labels, be released to pharmacies. In France, a technical committee studied information from the manufacturer and, on the basis of novelty, therapeutic interest and safety, decided whether a preparation might be introduced or not (the "visa" tem). In INDIA the introduction of new preparations was controlled, the Federal Government being responsible for the importation of pharmaceutical preparations. In JAPAN, non-official preparations, especially new ones, must be approved by the Ministry of Welfare. In Sweden, samples, full details of composition, and relevant chemical, clinical and biological information had to be provided, and when a speciality was accepted it was registered. UNITED KINGDOM relied on its Foods and Drugs and Pharmacy and Medicines Acts, its drug testing scheme; and on the Therapeutic Substances Act for control for biologicals. Many countries required detailed data of new pharmaceutical preparations before they could be introduced on the market; some required registration.

Whereas twenty years ago the pharmacopæias of the various countries were able to cover most of the pharmaceutical preparations available, today, with a few hundred new medicinal substances appearing every year, they could deal only with a minority: hence the need for control.

Dr. Davis said that in his view the term "pharmaceutical speciality" was more appropriate than "proprietary medicine."

The report of the study group contained the significant paragraph "There

is need for continued study of the legislation in different countries...and a meeting should be called later to consider this legislation and determine how it could be simplified and made more uniform in order to reduce obstacles to international commerce to a minimum and still provide protection to public health."

The report then gave advice on the organisation of a National Control Authority. The well-known British antipathy to controls would not prevent their international development, and the speaker suggested that it would be a better policy to consider the type of control that would prove least objectionable than to oppose what he personally thought was inevitable.

Those manufacturers who were familiar with the requirements for Belgium, Luxembourg, France. Holland, Germany, Italy and the United Kingdom would realise that the United Kingdom representatives on Western European Union had had far from an easy time defending what appeared to the others to be a country without controls and therefore a country in which all sorts of unreliable preparations were sold. The weakness of Britain's Therapeutic Substances, Foods and Drugs, Pharmacy and Medicines Acts and drug testing scheme was the lack of government inspection of manufacturing premises and of product control by official analysts. The latest move in the European field was a conference to be held in Rome in May. It had been called by the Italian pharmaceutical manufacturers to consider European legislation.

A Venezuelan resolution at the Pan-American Sanitary Conference in 1958 had expressed satisfaction at the establishment of a food and drug control programme; and recommended that countries exporting pharmaceuticals should adopt measures of control within their own legislative framework and that importing countries should authorise the admission of only such drugs as were authorised for domestic consumption in the exporting countries.

Dr. Davis had found the Gold Coast government well aware of its duty to remove the worst offenders in the advertised medicine field and it should be obvious that the "good old days" in the West African market had gone or would soon be gone.

Export Certificates

During recent years many foreign governments had imposed stringent requirements before allowing the importation of foreign pharmaceuticals. In the past five years some foreign governments, appreciating that products of doubtful value might be offered for sale, were insisting on some evidence of clinical value. Most foreign governments assumed that there were controls in this country over the manufacture and sale of pharmaceutical products far beyond those of the Acts he had mentioned. They thought that all premises engaged in manufacture of pharmaceuticals were registered with the Ministry

of Health and regularly inspected by officials of the Department; that control over quality was exercised by a government laboratory; that only properly qualified persons were responsible for manufacture; and that a register of clinically approved remedies was maintained by the Ministry of Health.

Additional details required on export

Additional details required on export certificates during the past six years included information on excipients and flavouring agents; pack sizes; length of time on the market; occasionally a statement that a product was available to the public otherwise than on a doctor's prescription; and often a statement that a product was sold under the same name in the exporting country.

The speaker recalled the circumstances in which the Pharmacy and Medicines Act, 1941, had been put on the Statute Book. The country was at war and purchase tax about to be intro-duced. Stamp duty on "patent" medicines had become increasingly ludicrous and it was an accepted principle that a tax should not be levied on a tax. The Chancellor therefore undertook, before the introduction of the next Finance Bill, "to see whether the parties could be got together to hammer out some reasonable solution of the position.' The parties (the Pharmaceutical Soci-National Pharmaceutical Union, Scottish Pharmaceutical Federation, Company Chemists Association, Wholesale Drug Trade Association, and the P.A.G.B.) got together and early in 1941 presented a memorandum to the Chancellor, indicating a basis of agreement. They would "raise no objection to the repeal of the Medicine Stamp Acts if at the same time there is inserted in the Finance Act repealing these duties a provision which gives the pharmacist equivalent privileges in exchange for that which he now enjoys."

Subject of Criticism

The Act was today subject to the criticisms that the provisions on the control of sale and distribution of medicines (the essential part of the Act) had been drafted as an agreed measure to reproduce as far as possible the *status quo* that had existed for more than 100 years previously; that the list of diseases and conditions for which advertisements were prohibited had been slipped into the Act from the 1941 Bill, which in turn had reproduced it largely from the 1936 Bill. The list needed revision in the light of modern medical knowledge.

Dr. Davis paid tribute to the Association for laying down standards in its advertising code. Those standards had become the basis in 1948 of the British Code of Standards, which was supported by main national organisations of advertisers in periodicals, posters, film and television. Finally the Act lacked any form of control over the introduction of new remedies or standards of production. In that respect Britain differed from many countries to which members of the Association exported and obviously hoped to continue to export.

A BRITISH ACHIEVEMENT IN RESEARCH

World's first vaccine for immunising against a parasite

THE first vaccine ever to give protection against a metazoan parasite-lungworm in cattle and sheep—has been produced at Glasgow University. It is being manufactured by Allen & Han-burys, Ltd., at Ware, Herts, under licence from the Ministry of Health. and marketed by the company under the name Dictol.

Losses Caused by Lungworms

February 28, 1959

The cattle disease for which lungworms are responsible is called husk or hoose. Not all animals that contract the disease die of it, but it has been a cause of heavy economic loss to farmers in Britain, South-west Scotland being an area particularly infected. In severe outbreaks every animal may die; more usually the loss amounts to 50-75 per cent. of a herd (in 1958 a farmer in Ayrshire lost forty out of sixty-eight calves). Animals that survive the disease may remain ill for months, perhaps not regaining normal health until the following spring; some may remain permanently stunted and underweight.

The disease is characterised by difficulty in breathing. Damage to the lungs occurs, most of it when the larvæ of the worm enter the lungs, causing extensive pneumonia and putting parts of the lung out of action. If the animal survives that stage, its condition may be aggravated by the adult worms, which later develop in the larger air passages. Since the migrating larvæ are responsible for most of the damage to the lung tissue, removal of the adults does not cure the disease, though it may alleviate the symptoms. Drugs may partly remove adult worms, but no drug repairs damage done to the lung tissue and the animal may remain ill long after all adult worms have disappeared.

The adult worms live in the larger air passages, where each female worm lays many thousands of eggs. The eggs are coughed up and swallowed, and on their way through the digestive tract they hatch into larvæ, which are deposited in the fæces. In their first stage the larvæ are not infective. They develop to maturity in five stages, arriving at the third (infective) stage on the pasture (in mild, damp weather in about

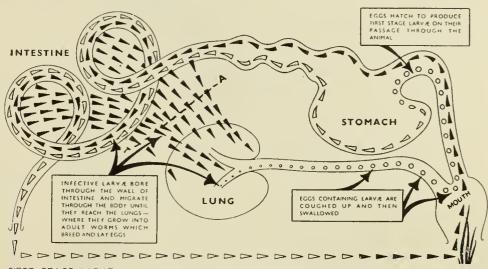
seven days).

The infective larvæ are swallowed by the grazing animal, and carried with the food to the small intestine, through the wall of which they bore and migrate through the body tissues until they reach the lungs. There they grow into adults (about four weeks after being

swallowed), and the cycle begins again.

To prevent larvæ from reaching the lungs would seem the obvious preventive measure, and control by grazing management has been tried, but under commercial farming conditions the method is impracticable and unecon-

It was known that animals which recover from the disease develop a natural immunity. Early attempts to produce a vaccine used a preparation of adult lungworm, but immunity resulting from the product was not sufficiently strong to be of value for practical



FIRST STAGE LARVÆ INFECTIVE LARVÆ

LIFE CYCLE OF LUNGWORM IN CATTLE: First stage larvæ from dung of infected animals develop in about seven days to the infective stage. Partially inactivated larvæ in the new vaccine are administered by mouth. Like normal larvæ they reach the intestine and pass through its walls, but fail to reach the end of their journey to the lungs. In the body tissues they stimulate body defence mechanisms.

purposes. About three years ago at Glasgow, Jarrett and co-workers examined a new approach, involving the use of x-rays on living larvæ. The method brought about a partial inactivation of the larvæ, enabling them to convey immunity without giving the disease.

"Virtually 100 per cent. Protection"

Use of the new vaccine containing lungworm larvæ that have been subjected to x-irradiation has been found to give virtually 100 per cent. protection against husk in cattle, even in conditions of heavy challenge. Controlled experiments and field trials in 1957 involving over 1,000 animals showed that a single dose conferred considerable resistance. Under a two-dose technique carried out in 1958, vaccinated animals showed no obvious signs of husk and at autopsy their lungs were found normal. Field trials were organised to test the vaccine under commercial farming conditions. On farms where no coughing had been observed before vaccination, only five vaccinated animals out of 8,000 later showed signs of husk.

Messrs. Allen & Hanburys have converted existing and erected new buildings, engaging additional veterinary surgeons, parasitologists, and laboratory technicians for commercial-scale production. The product as used contains larvæ that have been partially inacti-Able to begin their migration from the intestine to the lungs, they are immobilised by the body tissues (in the region A-A in the diagram) and die before they complete their journey. They live long enough, however, to stimulate the defence mechanisms of the body and produce an immunity that is called into play if a real attack occurs later.

The vaccine is given by mouth. Despite the fact that it is thus easier to administer than injected vaccines, it is being issued to the veterinary profession only and not put on general sale, the manufacturers holding the opinion that, as the vaccine is the first ever

to give protection against a parasitic disease, it represents a new concept in prophylactic medicine and must on that account be given under professional supervision. Cost is in the region of 30s, per animal for the double dose. Dictol is not a remedy but a preventive. It is administered to animals aged two months or over, and the animals should be protected from infection until full immunity has developed.

So novel a principle is, of course, an obvious subject for experiments upon other parasites, even possibly human parasites, and work in that direction is known to be in progress.

AIDS TO EFFICIENCY

Credit Facilities Under Control.-London Office Machines, Ltd., Terminal House, Grosvenor Gardens, London, S.W.1, have received from their Australian Sweda agents details of a system in operation there for controlling credit accounts in pharmacies. The system is based on the Sweda model 76 cash register. It allows the chemist to provide a credit service to customers without price increases. When the customer first purchases items and wishes to have them charged, they are recorded on the cash register. A ticket handed to the customer shows the items purchased and the prices charged, the final amount giving the balance of the account outstanding at that date. The chemist asks the customer to sign opposite the machine posting on the ledger card. statements are not sent out because the statement is progressively submitted to the customer on each purchase.

CONFERENCE BOOKINGS

APPLICATIONS for accommodation at the British Pharmaceutical Conference, Bournemouth, September 21-25, should be made on special forms to be provided and should be sent to the secretary of the committee: Mr. D. F. Smith, 12 Redhill Crescent, Bournemouth, and not as previously suggested.

SACCHARIN AND GLUCOSE IN SOFT DRINKS

Food Standards Committee suggest major changes

CRITICISMS of soft drinks, particularly glucose beverages, appear in a Food Standards Committee's report to the Minister of Agriculture, Fisheries and Food (H.M. Stationery Office, price one shilling). The Committee's recommendations include:

(1) Prohibition of the use of the term glucose on any labels and advertisements.

(2) Partial prohibition of the use of saccharin in manufacture of soft drinks. (3) Insistence on a declaration of fruit

content in soft drinks based on fruit. (4) restriction on the use of acids for

flavouring purposes.

(5) Banning the enrichment, above the natural content, with vitamins.

The committee state that glucose beverages are at present widely advertised as a source of energy with the inference that they provide energy in a special form that is quickly and readily available to the body. . . . If account is taken of the amounts likely to be consumed in a normal diet, no soft drink at present on the market can in our view be regarded as a sufficient source of carbohydrate to justify special claims relating to energy value. For this reason also it would be misleading to promote the sale of glucose beverages or any other soft drink by advertisements of a medical or pseudomedical character based on recoinmendations from the medical and nursing professions or testimonials from individual purchasers.

Dealing with "Misconceptions"

However, the committee believe that the prohibition of nutritional claims would still not be sufficient to deal with the wide-spread misconceptions which the public have about the various sweetening constituents indiffer-ently described as "glucose" and their nutritive values.

They therefore recommend that hydrolysed starch products used for sweetening should be referred to in labels and advertisements for soft drinks as "starch syrup," "corn syrup," or "hydrolysed starch," and dextrose monohydrate as "dovteses." dextrose monohydrate as "dextrose. "We consider that, however strictly defined, continued use of the term 'glucose' in labels and advertisements addressed to the ordinary purchaser could still be the cause of confusion."

Regarding the use of saccharin to

sweeten drinks, the report comments: "Whatever may have been the practice before and during the war, we can see no good reason from the consumer's point of view why the practice of substituting a non-nutritious substance for sugar in soft drinks should continue... In our view, the consumer has a right to expect soft drinks to be sweetened with sugar.

The committee consider that the wide variety of soft drinks and the lack of information about their composition may give rise to confusion. Where soft drinks contain fruit constituents, they recommend that, for the guidance of purchasers, manufacturers should be required to declare on the labels the amount of fruit or fruit juice which

the drinks contain. The committee also consider that minimum standards of fruit or fruit juice content are necessary for the protection of the consumer. They propose that the present standards for "squashes" should be retained, and that the existing standard for "drinks made from whole fresh oranges" should be replaced by one based on the fruit content of the drink as sold, and covering the use of other citrus fruit as well as oranges.

Apart from a prohibition on the use of artificial sweetening, statutory control over the composition of carbonated and flavoured beverages is not thought to be necessary; those beverages would then no longer be exempt from the requirements of the labelling of Food Order as respects declaration of ingredients. It is recommended, however, that the standards for tonic water and soda water should be retained.

Other recommendations are that the acids suitable for use in soft drinks should be specified in any revised regulations. The committee consider that the addition of acids to squashes and comminuted drinks should be re-stricted to those acids found in appreciable quantity in the free state in raw

fruit, and recommend that the regulations should permit the addition, for acidifying and flavouring purposes, of citric, tartaric and malic acids to fruit drinks and the addition of those plus lactic, acetic and phosphoric acids to other soft drinks.

Though considering that soft drinks are not an appropriate vehicle for vitamin fortification, the committee see no objection to the addition of ascorbic acid to squashes and comminuted drinks so as to give the drink when sold a vitamin content comparable to the amount originally present naturally in the relevant ingredients. "Any claim based on such addition, however, should be framed in accordance with the Code of Practice on Vitamin Claims. Since nicotinic acid is not naturally present in citrus fruit, except in trace amounts, we see no need to make pro-vision for the addition of nicotinic acid to soft drinks.'

If interested parties have any views on the recommendations which they wish considered before decisions are taken, they are asked to write to the Assistant Secretary, Ministry of Agriculture, Fisheries and Food, to arrive not later than May 8.

IRISH WHOLESALERS' DINNER

Stress on need for new Pharmacy Bill

THE annual dinner of the Wholesale Drug Federation of Ireland, held in Dublin, on January 28, was presided over by Mr. H. Hindley (Wigglesworth, Ltd.), who had just been elected chairman of the Federation in succession to Mr. Hooper (Ayrton, Saunders & Co., Ltd.). Before the company sat down to dinner there was a cocktail and sherry reception at which Mr. and Mrs. Hindley received the guests. The toast to the Federation was proposed by MR. HUGH G. SMITH who recently retired as Press recorder to the Pharmaceutical Society of Ireland (see p. 217). said that the Federation might not be large in numbers, but it was great and widespread in its activity as distributor to retail pharmacy. Irish pharmacy was now passing through a difficult phase and there was urgent need for the passing of the long-promised Pharmacy Bill. The Pharmaceutical Society of Ireland and its Council should have the full support of every organisation like the Federation in its efforts to have the new Bill expedited.

MR. HINDLEY, responding, said the Federation were glad to have with them



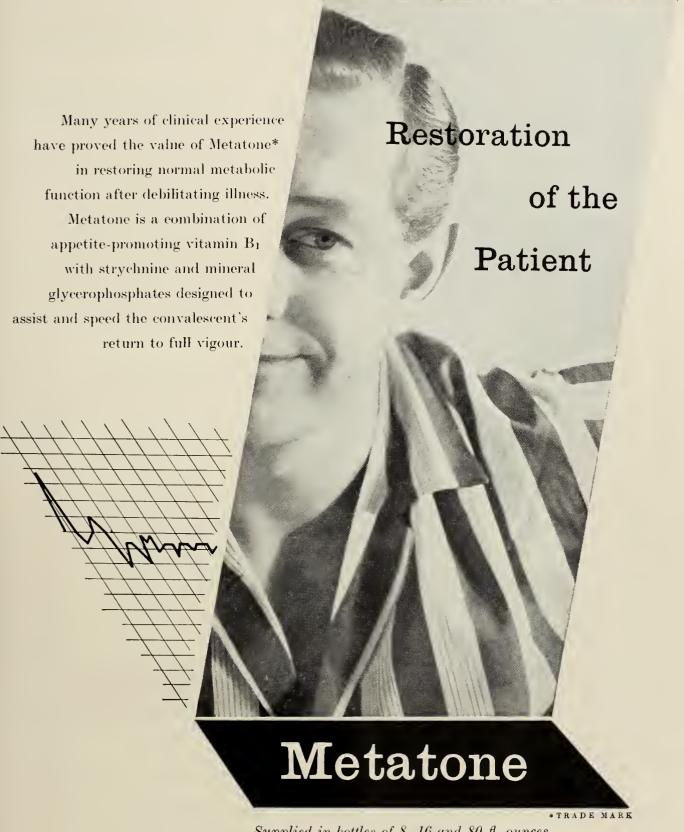
A loursome from P. C. Cahill & Co.: Messrs. Kenna, Malachi Leonard, J. Hegarty, and



Mr. Hindley (chairman of the Federation) with Mr. Hugh P. Corrigan (president, Pharmaceutical Society of Ireland).

that evening the presidents of the Pharmaceutical Society of Ireland and of the Irish Drug Association. During the past year the Federation had no problems of a serious nature, and its members looked forward to working in close harmony with retail pharmacy in the year ahead. The one matter of concern to all pharmaceutical wholesalers and retailers was that non-pharmaceutical traders were offering at cut prices lines normally stocked by pharmacists. They hoped, however, between themselves and the Irish Drug Association.

to find a remedy for that situation.
The toast to "Our Guests" was proposed by Mr. R. RICHMOND (treasurer of the Federation), and Mr. CORRIGAN adopted the unusual and most popular course of singing his response to that toast. MR. P. McAULIFFE (president of the I.D.A.) also responded, paying tribute to the good relations that existed between the two bodies.



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- Doctors today are becoming more and more dependent upon. the specialized knowledge of the pharmacist in making their assessment of new products.

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Tubes of 5 G. and 15 G.

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Lotion 0.5% with Neomycin Sulphate Bottles of 20 ml. Lotion 1.0% with Neomycin Sulphate

Bottles of 20 ml.

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Topical Ointment 1.0% Hydrocortisone with 3% Terramycin. Tubes of $\frac{1}{6}$ oz. and $\frac{1}{2}$ oz.

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brand of prednisolone

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Bottles of 100 and 500 Tablets of Lmg. Bottles of 20, 100, 500 Tablets of 5 mg. and 1000

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Prednisone (Pfizer)

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Tooth-pastes and What They Claim

A RECENT decision by the Independent Television Authority to insist that manufacturers of tooth-pastes shall review some of the claims made by them in advertisements on commercial television is a most important one. It follows a recommendation by the Authority's advertising committee after consideration of a criticism by the British Dental Association that the claims of the manufacturers were misleading. Continued pressure to compel a revision of advertisers' claims has also been exerted in Parliament, where a number of members have shown almost as much tenacity as Mr. Nabarro has displayed in attacking the purchase tax. Even a Government spokesman (Sir David Eccles) said on January 22 that "In this case of an advertisement which claims that if a certain tooth-paste were used it would not be necessary to brush one's teeth so often, I am informed that it would take five years of clinical tests to see whether the claim was justified" (see C. & D., January 31, p. 112). It is possibly with that situation in mind, and because one of the principles laid down for television advertising by the Independent Television in 1955 was that "no advertisement shall contain any reference which is likely to lead the public to assume that the product advertised, an ingredient, has some special property or quality which is in fact unknown, unrecognised, or incapable of being established" that the advertising advisory committee of I.T.A. has now put forward its recommendation. The British Dental Association recognises that a dentifrice is of considerable value in the cleaning of the teeth and gums, but does not accept as proved (on the evidence at present available) any claim that a dentifrice can actively prevent dental disease otherwise than by virtue of its function as a cleaning agent. Pharmacists will agree with the statement (British Dental Journal, February 17) that "when . . . advertising has a direct bearing on the health and welfare of the nation . . . it is only right and proper that those responsible for such advertising, whether in the Press or on television, should take advice from those who are responsible for the health of the nation and who are dedicated servants of the public in their particular spheres."

As competition increases, and advertising grows fiercer, no one can criticise advertisers for using every legitimate device to stimulate sales, indeed it is almost essential that they should do so, but the device must be an honest one, and any claims should be capable of verification.

Overseas Trade in January

THE value of United Kingdom exports of drugs, medicines and medicinal preparations reached the record figure of £3,866,904 in January, exceeding by about £120,000 the previous best record of May 1957. Expectedly, therefore, several of the items for which statistics are available (see table below), were also at record levels; they included alkaloids, antihistamines and proprietary medicines. Penicillin exports were at their highest for six months, whilst the other antibiotics just failed to reach the previous best (£546,468) of March 1958. The last time that proprietary medicines exports exceeded the £1-million mark was in 1957.

Australia retained her position as the best single market for prepared medicines, though the value of shipments was, at £276,506, not much in excess of Nigeria's purchases at £245,727. Similar exports to Canada (£110,726) and to the United States (£124,346) were about double those for January 1958.

Imports of prepared medicines into the United Kingdom totalled £451,819 during January and were at their lowest level since June 1957. Not too much should be read into those figures, however, because, as we pointed out when discussing the accounts of December 1958 (C. & D., January 31, p. 118), there was a "once-forall" drive to clear outstanding documents in December

EXPORTS	VALUE
	_
Drugs, medicines, medicinal preparatio	
\$ 714 T	3,866,904
D 1 1111 - 1	299,743
	155,455
	42,599
	55,449
	543,041
	9,480
	169,596
	82,719
	62,960
Antipaludics	120,328
Barbiturates	37,055
Liver extracts	11,253
Ointments and liniments	118,857
Insulin	61,358
Sulphonamides	122,714
Proprietary medicines	1,082,794
Other medicines, unclassified	854,656
Glycerin	67,210
Acetone	33,685
Citric acid	41,637
Salicylates	25,125
Perfumery and toilet preparations	, i
Lipstick, face powder, etc	285,321
Dentifrices	135,510
Toilet soaps	218,654
Synthetic detergents	491,924
IMPORTS	£
Vitamins	42,814
Antibiotics	73,801
Alkaloids	47,521
Proprietary medicines	53,830
Unclassified medicines	233,853
Danas	06 560
Ladina	67.074
Monthal	22 604
Essential oils	32,084
Bergamot	16.651
City and all a	16,651
	5,812
Canamiran	2,024
Geranium	25,070
Lavender	45,418
Lemon	91,587
Orange	22,679
Peppermint Unclassified	52,574
	142,687

1958 before the switch to the new tariff list came into force on January 1.

United Kingdom total exports were, at £270·1 millions, £4 $\frac{1}{2}$ millions higher than in December 1958. Between January 1958 and January 1959 the total value of exports has declined by 2 per cent., though there

has been a relatively small increase in the number of classes, including that of chemicals. With re-exports in January at £9·3 millions, and imports at £328·6 millions, the visible trade deficit (£49·1 millions) was slightly above the monthly average for second half of 1958 and £13 millions above average for the year.

Onward from Galen A CURRENT CAUSERIE

Not so much has been heard lately of the cold war declared by chemists a while ago upon the manufacturers of a certain proprietary antiseptic who widened the channels of distribution after a long period of exclusive distribution through pharmacies. One thing is not in doubt. The product itself, though it was never launched as a household disinfectant, ousted the cruder products for virtually all indoor purposes. I had almost forgotten the rows of dark fluted bottles of carbolic acid that used to occupy a ground-level position in the shelves behind the counter in the first pharmacy I served in, not all that many years ago. The memory came sharply back when I saw again one of the vivid orange-red labels the bottles used to bear, heavily headed "Carbolic Acid, POISON." I find it hard to believe, however, that the remainder of the legend had survived into my lifetime, for it goes on "For the Disinfection of Drains, Cesspools, removing Offensive Smells, neutralizing Pestilential Exhalations, and destroying Contagion." The label instructs how to "disinfect the chambers of the sick" and how to deal with "night-chairs, or any vessels in which putrid animal or vegetable matter has been kept." Ah, well! Who reads labels anyhow? It's likely enough obsolete phraseology survives on some of the products with still a sizeable sale.

4

THE American physician and pharmacist William Tully, who died on February 28, 1859, is chiefly remembered for "Tully's powder" (his modification of Dover's powder); for his enormous two-volume "Materia Medica or Pharmacology and Therapeutics" (1857–58); and for his association with the first editions of the National Pharmacone in Page 21 of the National Pharmacone in Page 22 of the National Pharmacone in Page 23 of the Na copæia. Born at Saybrook Point, Connecticut, U.S.A., on November 18, 1785, Tully studied medicine at Dartmouth Medical School and as an apprentice to Eli Ives (professor of materia medica at Yale), and in 1810 was licensed by the Connecticut Medical Society to practise. For several years he was professor of materia medica and therapeutics at the Vermont Academy of Medicine, Castleton, and at Yale. As a doctor he was not a success, preferring to botanise rather than practise, and he experimented with drugs on his patients. His colleagues found him irritable and conceited. He was more successful in authorship. He wrote "On the Ergot of Rye" (1820), "Diversity of the Two Sorts of Datura found in the United States" (1823). and, in the same year, with Thomas Miner, "Essays on Fever." Though regarded as verbose, pedantic, and lacking in perspective, he neverthcless enjoyed the reputation of being "the most scientific physician in New England."

*

SAID to have been used in Madrid by José Celestino Mutis in 1759 (the year before he left Spain for South America); angostura bark is derived from Cusparia febrifuga, a species of South American tree of the order Rutaceæ. At that time unknown in the rest of Europe, the bark had long been used by the natives as a tonic and as a cure for malaria. Today, angostura serves solely as an ingredient of aperitifs, particularly gin. Its name is taken from Angostura Bolivar (the present Ciudad Bolivar) on the Orinoco river in Venezuela, but in 1875 the manufacture of Angostura bitters was transferred to Trinidad because of political unrest in Venezuela. Mutis, who was not only physician but astronomer, linguist, and priest, spent more than thirty years in Nueva Granada, Colombia, where he collected

20,000 botanical specimens and recorded his observations, with coloured illustrations, in a large number of still unpublished volumes. In 1766, when physician to the Marquis de la Vega (the Viceroy) he was appointed professor of medicine at Bogotá. At his suggestion changes in the medical curriculum were effected in 1802. He advocated smallpox inoculation, studied the properties of ipecacuanha. tolu and Peruvian balsams, an discovered the presence of the cinchona tree in Colombia. Mutis resigned his medical appointments in 1772 and entered a religious order. Ten years later he was entrusted by the Government with the foundation and direction of a museum of natural history, first at Mariquita and subsequently at Santa Fé de Bogotá. Not until 1788 was angostura bark introduced into England (by Augustus Everard Brande, apothecary to Queen Charlotte).

"ALTHOUGH it is not realised by the majority of our readers, there is still a considerable struggle involved in producing each edition of this magazine." The words are not written by ourselves about ourselves (in any case we prefer to be thought of as a newspaper), but we have a vivid and intense picture of circumstances different in many respects, but not in that particular manifestation, from own own. The words form part of an editorial introduction to the December 1958 issue (just received) of *Pharmakon*, the magazine of the Nottingham University Students' Pharmaceutical Society. One of the difficulties a students' publication has to face is that its editor or editors (two are named in Pharmakon) change with a frequency that must be detrimental to any easy continuity, though it is not unknown, if for different reasons, in Fleet Street. Not surprisingly the comment "such a magazine can have a life of no more than two issues" was made when the magazine was first published. The fact that the prophecy is unfulfilled after six years is a tribute to the editors and editorial board of Pharmakon, and we hope they will continue with equal success. For the publication has a serious tone and solid content in sharp contrast to the facetious nature of so many student publications. We are not against that. We read any such that come our way with a seldom disappointed expectation of enjoying wit and humour of a spontaneous kind that are always refreshing. But the more serious publication has the greater hope of permanence—if the students in any given year care much about that. The magazine makes sensible provision for its future by including a subscription order form (2s. 9d. annually; life subscription 63s.), but as that is of little use to intending subscribers who do not at present receive copies we may mention that the person to write to is the business manager at the Union room of the university.

FIFTY YEARS AGO

DISTRIBUTING PRINTED MATTER

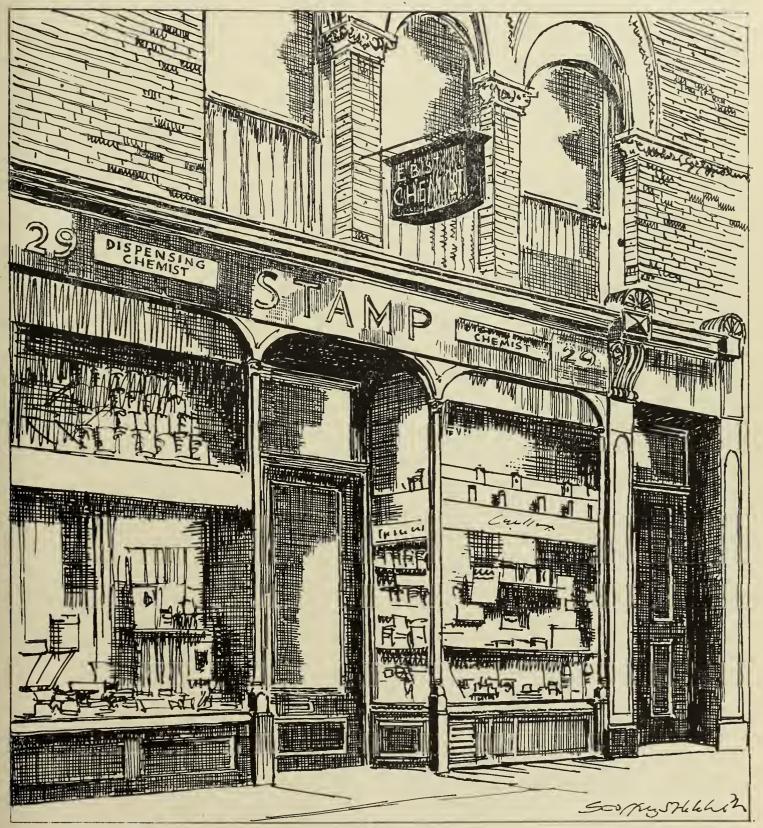
From the C. & D., February 27, 1909

DISTRIBUTING a pamphlet from house to house is a good way of creating sale for a new proprietary, and a good way of augmenting the sale of an old one. You can tell the story all at once in a pamphlet, whereas in a newspaper you can only tell it a little bit at a time, and will be wise if you resist the temptation to tell it too fully. The "bit-at-a-time" principle can be followed out in the pamphlet too. Before deciding to use, and before considering how to write, a

pamphlet it is very desirable to consider how it will be distributed and what it is likely to cost. Distribution of printed matter from house to house costs pretty much the same per thousand whether one distributes thousands or millions. It is generally a good deal less than the cost of the books, and there is sound policy in going to a little expense to prevent the books being wasted. Of course, one can contract with the local bill-poster to undertake the dis-

tribution; but fewer books will be wasted if we engage men of our own and pay them directly. What has to be done is to get a book into the letter-box or under the door of every house worth sending a book to; and whether a particular class of house is worth a book or not depends upon the speciality itself. No house must have more than one book, and it is desirable to prevent books being distributed into the gutter or fireplace.

PHARMACIES OF BRITAIN—78



THE PHARMACY OF E. B. STAMP, HAMPSTEAD

The pharmacy at 29 High Street, London, N.W.3, dates from 1870. The door seen at the right of the drawing is typical of its period, with consoles running the depth of the cornice. Like the rest of the façade, the cornice is in black and gold.

HOSPITAL PHARMACY FORUM THEY AND US

OST of us have a built-in reaction system which causes us to resent remote control. Any move by "the authorities," whether they be the Regional Board or the Ministry, is suspect until proved innocuous. "We," the men on the job, know what is required far better than "they" in Whitehall: let them keep their meddling fingers out!

Whilst there is something laudable, even vitally necessary, in maintaining a critical attitude towards external interference, it is foolish to pretend that co-ordination and leadership are not required. How such leadership should best be encouraged, and what is the best machinery for co-ordination, are the problems that remain unsolved. Such, at any rate, was the burden of Sir George Schuster's remarks in the survey carried out recently by the Acton Society Trust (see C. & D., February 21, p. 200).

Changes for the Better

So far as pharmacy is concerned, one has to acknowledge that, since the introduction of the Health Service, improvements have taken place. Many hospitals which formerly had no recognisable pharmaceutical service now come under the supervision of one of the pharmacists in the Group. A number of hospitals have rebuilt or extended their pharmaceutical departments, and though there is as yet no official recognition of the pharmacist as a group officer, there is widespread adoption of the idea by the Hospital Management Committees themselves. The majority of the Regional Boards now have some sort of pharmaceutical committee, and several of them have instituted regional surveys of the pharmaceutical services as a preparatory step to improving the organisation. Most of those improvements were recommended in the "Report on the Hospital Pharmaceutical Services" (the "Linstead" report), and might have been set in motion much earlier had the Minister of Health not taken two years to decide to publish the report. Even then it took much pushing and questioning to get it published at all. The advice given to hospitals in H.M. (55) 22, whilst helpful if accepted, was in no way mandatory, and there are still Regional Boards which have refused to set up pharmaceutical advisory committees or to survey the service in their region. Such delays, and the eventual wishy-washy recommendations that cmanate from the Ministry, can hardly be encouraging to those public-spirited people who serve on the committees which produce the

A further indication of the weakness in the present system is the contradictions that have appeared in a number of reports relating to pharmacy. The Linstead report quite clearly recommended that the pharmacist and only the pharmacist should advise on and select the sources of drugs and dressings. The function of the Supplies Officer, the report recommended, should be limited to assisting with the mechanics of arranging contracts, if indeed it were necessary for him to play any part at all. The "Bradbeer" committee on Administration in hospitals supported the view that heads of technical and special departments should be responsible for the purchase of their own materials, and it encouraged the devolution of responsibility on to the heads of such departments. After a long delay the Report on Hospital Supplies recently appeared and was noted in these columns (C. & D., December 13, 1958, p. 631). Though at least half the personnel was common to the committee responsible for that report and the Bradbeer committee, the conclusions relating to the pharmacist appear to be reversed in the later report. Which report should the H.M.C.'s regard as sound? Therein lies the weakness of referring matters of administrative policy to committees especially as it seems, in the case of the Ministry of Health, that reference to a committee is done primarily as a pis aller when no clear decision is to be taken centrally. By all

means use committees to obtain information and advice but, having obtained it, let the Minister decide on firm policy and follow it through.

There is undoubtedly a general and profound sense of frustration and disappointment among hospital pharmacists. It arises from uncertainty whether they are fulfilling their proper rôle. In too many cases their work is hampered by a quite irrational subservience to the Supplies Officer or administrator in the matter of supplies. The only system that can be satisfactory is one in which the pharmacist is the supplies officer for drugs and dressings. That can be achieved without weakening any of the safeguards necessary in public expenditure, and it is practised in most of the leading hospitals. One is tempted to think that where it is not practised there is more than a modicum of bumbledom and petty vanity on the part of some of the administrative officers. Yet on this subject the Ministry always sounds an uncertain note. Has the Minister insufficient confidence in the competence or the probity of his pharmacists to make up his mind on an issue that would go far to restoring confidence among the pharmacists themselves?

Perhaps the Minister secretly agrees with Sir Basil Eidson that the pharmacists must be pretty small fry because of the low salaries they receive. He cannot have it both ways. Many of the more enterprising men have gone from the hospital service. Recent correspondence elsewhere shows the reluctance of men to apply for quite senior posts in the service. Though many young men are glad to receive their practical training in hospitals, and have an aptitude and liking for the work, they have come to the conclusion that the Minister is really not very interested in having a good pharmaceutical service. How long will it be before serious leadership is given and some indication is forthcoming that the Minister wants and is prepared to encourage the ablest men he can get?

It seems from Sir George Schuster's report that the problem is a general one and not confined to pharmacy, but that is no comfort to us who are concerned to see our own profession play its fullest part in the Health Service of the country.

NEW BOOKS

Biochemical Preparations Volume 6

CARL S. VESTLING (editor-in-chief). Chapman & Hall, 37 Essex Street, London, W.C.2. 9 x $5\frac{3}{4}$ in. Pp. viii + 105. 42s.

Volume 6 in this established reference series includes a cumulative index. Enzyme substances dealt with in the current volume include: Phosphonylase a and b; old yellow enzyme; leucine aminopeptidase, etc. Among other classes of compounds referred to are cytochrome C; insulin; ribonucleic and deoxyribonucleic acids; and amino acid and sterol compounds. Methods have been supplied from a wide range of laboratories, and the submitted procedures have all been checked independently.

The Pharmacology of Plant Phenolics

J. W. FAIRBAIRN (editor). Academic Press, Ltd., 40 Pall Mall, London, S.W.1. $9\frac{1}{4}$ x $6\frac{1}{4}$ in. Pp. 151. 30s.

This book is a report of a symposium organised by the Plant Phenolics Group and held at the University of Oxford in April 1958. It presents up-to-date information on naturally occurring phenolic substances—a group of biologically important compounds with significant pharmacological applications. About half of the contributions deal with the biflavonoids, their relationship to capillary fragility, vascular resistance and metabolic processes. Because of their importance in pharmacology the phenolic substances, adrenaline, noradrenaline and 5-hydroxy-tryptamine are treated although they are not primarily of plant origin. The editor, who is well known as reader in pharmacognosy, School of Pharmacy, University of London, is also author of one of the papers (on "The Cathartic Action of Anthraquinones").

BRANCH EVENTS

HOUNSLOW

Dinner and Dance

AMONG those who attended the recent annual dance of the Hounslow Branch of the Pharmaceutical Society were Mr. T. Heseltine (a member of Council of the Pharmaceutical Society) and the mayor and mayoress of Heston and Isleworth (Alderman A. J. Fielder and Mrs. J. Leech). They and about 200 members and friends were welcomed by the branch chairman (Mr. E. C. Baker) and his wife. The proceeds of the dance are being donated to the Pharmaceutical Society's Benevolent and Birdsgrove House Funds.

SOUTH-EAST LONDON

Ministry's Analyst and the Society About 300 members and guests at the annual dinner and dance of the Southeast London Chemists' Association were given details of recent Pharmaccutical Society history by Mr. N. L. Allport (analyst to the Ministry of Health), who said "all my working life has been associated with the Pharmaceutical Society." Mr. F. W. Adams (secretary, Pharmaceutical Society) responded to the toast of the Society. Mr. A. E. S. Hull (president, Association) welcomed the visitors and expressed the Association's appreciation of contributions by manufacturers and wholesalers towards the prizes. Mr. J. Wright (deputy secretary, National Pharmaceutical Union) replied to the toast of "The Ladies and Visitors," proposed by Mr. Hull.

ISLE OF WIGHT

Chemists and Dentists Meet

DENTAL decay could be prevented by sound oral hygiene, a balanced diet and regular visits to the dentist, said MR. H. COLIN DAVIS, a dental surgeon, when he spoke on "Prevention by Propaganda " at a recent joint meeting of the Isle of Wight Branches of the Pharmaceutical Society and the British Dental Association. He said those three rules should be impressed upon the public by incessant propaganda in order to alleviate the national problem of dental disease. That problem was likely to increase because of the shortage of dentists. The address was followed by a film programme. Mr. E. C. Palmer (chairman of the branch) presided, Mr. V. Simmons (chairman, local branch of the British Dental Association), proposed a vote of thanks to the speaker which was seconded by Mr. W. RAM-AGE.

GLASGOW

Twenty-seven Prizes

THE annual dinner and dance of the Glasgow Pharmacy Club was held in Glasgow on January 27, the president of the Club (Mrs. J. G. Jeffrey) in the chair. The toast of "The Glasgow Pharmacy Club" was proposed by Mr. S. Hughan, a former member, now domiciled in England, and "The Donors" was proposed by Mr. N. A. Herdman on behalf of Duncan, Flockhart & Co., Ltd., with response by Mr.

J. WATT (vice-president of the Club). The prizes, twenty-seven in all, in the form of silver cups, rose bowls, medallions, etc., were presented to the winners by MRS. JEFFREY, who in turn was presented with a bouquet by MR. J. GIBSON, on behalf of the Committee. Among the guests was Mr. R. Anderson (vice-chairman, Glasgow and West of Scotland Branch of the Pharmaceutical Society).

STOCKPORT

Dead Sea Scrolls

A DEPARTURE from the usual was made by the Stockport Branch of the Pharmaceutical Society at its February meeting when the Rev. I. Hodson gave an address on "The Dead Sea Scrolls." He traced the history of their discovery and outlined the task of transcribing them and their significance to all religious denominations, stressing that it would take at least fifty years more to piece their full story together. Archæologists, he said, were still working on the fragments. In the meantime the literature on them was increasing and a number of good publications were already available. Mr. Hodson's talk stimulated a well attended meeting to much deep thinking. Mr. Hall, in proposing the vote of thanks, remarked that in his long experience of lectures delivered at branch meetings none had created so much interest. It would be long remembered.—On February 3, Mr. D. P. Allen, F.P.S. (vice-chairman of the Branch) represented the branch as a guest of the chairman of the British Medical Association (Stockport division) at its annual dinner at the Guildhall. Guest of honour was Professor Andrew M. Claye (president, Royal College of Obstetricians and Gynæcologists), an old Stockfordian.

CORNWALL

A Pattern for Others

"ENGLISHMEN are prone to decry their own organizations especially when they are compulsory members of that organisation. In the Pharmaceutical Society we are very fortunate in our administration which has been the pattern of a greater number of similar organisations throughout the world," said MR. A. ALDINGTON (a member of the council of the Society) at the annual dinner of the Cornish Branch held recently at St. Austell. Mr. Aldington was replying to the toast to the Pharmaceutical Society proposed by Mr. J. G. HARRIES (secretary for education for Cornwall). Mr. Harries praised the educational efforts of the Society, and then said that he was often made aware of the devotion with which people like Mr. Aldington applied themselves to public work. Without such efforts democracy work. Without such citotis activated would soon go on the rocks. Dr. F. D. M. HOCKING (county pathologist) replied for the guests. The new gist) replied for the guests. The new chairman of the branch (MR. A. H. JAMES, Penzance) praised the work of the retiring chairman (Mr. T. H. Bramley, Bodmin); he also thanked the secretary (Mr. G. J. Hendra, Truro), the social secretary (Mr. R. C. Johns, Bodmin) and the treasurer (Mr. W. Williams, Par) for organising the dinner-dance, which more than 200 attended.

ABERDARE AND MERTHYR -

Motto of a Branch

Some branches of the Pharmaceutical Society may have to go outside their district to find a hall large enough to hold their main social function each year, but few can boast, as the Aberdare and Merthyr Branch can, that their annual dinner and dance regularly attract a number five times the membership of the Branch. Well over 200 guests attended the ninth annual dinner and dance which was held in Cardiff on February 12. They saw the chairman (Mr. B. J. E. Jones) hand a cheque for £105 on behalf of the branch to Mr. Tom Reid (a member of the Society's Council) for the Benevolent Fund. It was the branch's motto, said MR. JONES, "To be first not only alphabetically but benevolently. 1957 Aberdare was second only to Cheltenham in the highest per capita contribution to the Benevolent and Birdsgrove House Funds and when the final figures were known for 1958 he hoped for a repeat of that achievement. The branch was one of the smallest in the country, but another small neighbouring branch had lately been dis-banded and in consequence they had received a few new members. In proposing the toast "The Pharmaceutical Society," Mr. Jones recalled his invitation to a dinner in London to celebrate the purchasing by the Society of the freeholds of 14-17 Bloomsbury Square and added, amid laughter, "this dinner had to be done so that, within a reasonable time, they could without any question raise the retention fee by an appropriate amount." Responding, MR. REID said that he was overwhelmed at the Branch's generosity. Such a performance for a branch of only fifty-four members was remarkable and if they did not top the list for 1958 they must certainly be a close second. He recalled that it was in Aberdare that Sir William Glyn-Jones had been born and had received his early training in pharmacy. The junior vice-chairman (Mr. E. R. Thomas) proposed the toast to the visitors amongst whom he named Mr. W. B. Samuel (Clerk to the Glamorgan Executive Council); Dr. Ralph Battram (chairman, North Glamorgan Branch, British Medical Association); and Messrs. R. Pomeroy (chairman, Cardiff Branch, Pharmaceutical Society); G. Page (chairman, Pontypridd and Rhondda Branch) and J. Morris, Cardiff, who acted as master of ceremonies.

BOURNEMOUTH AND POOLE

Amalgamation of Two Branches

A JOINT meeting of the Bournemouth and Poole and East Dorset Branches of the National Pharmaceutical Union was held on February 12. Mr. Harry Ridehalgh (chairman, Bournemouth Branch) presiding. After discussion and consideration of the many replies, all favourable, to a questionnaire addressed to all members of both branches, it was agreed that the two branches should be amalgamated and that the secretary and officers of the Bournemouth Branch should act for both until a more representative committee was elected at the annual meeting. Mr. G. H. Graham, O.B.E. (a member of the N.P.U. Executive, chairman of the National Joint Contractors Committee, and a member of the National Joint Pricing Committee) who addressed the meeting, stressed the need for endorsing all prescriptions where proprietaries were dispensed from small packs, pointing out that such endorsements, where considered reasonable, were passed without question and that none were disallowed without previous correspondence with the contractor. He also asked for the fullest co-operation from all contractors who might be called upon to supply to the N.P.U. facts and figures to assist in the negotiations for remuneration with the Ministry of Health.

PORTSMOUTH

Therapy of Rheumatoid Arthritis

An open meeting of the Portsmouth Branch of the Pharmaceutical Society was held on January 22, when Dr. D. MacDonald, M.A., M.B., Ch.B. (May & Baker, Ltd.) spoke on "Current Therapy of the branch (Mr. P. E. The chairman of the branch (Mr. R. E. Clark) presided, and members of the local branches of the British Medical and Dental Associations, and of the local Executive Council, Group Hospital Management Committee, and Red Cross and Nursing Associations were also invited. Dr. MacDonald outlined the history of the disease and indicated the extent of its existence today. Its incidence, he said, was greater among women, especially in women of early middle age, than among men. matoid arthritis was a disease of connective tissue. It caused inflammation, granulation and final stiffening of the joints. Anaemia was one result, and that affected the condition of the heart. The main treatment consisted of analgesics, splinting to prevent deformity, and physiotherapy. Gold and phenyland physiotherapy. Gold and phenylbutazone were effective in some cases, and salicylates gave relief. If those failed, steroid therapy was tried. Recently trials held with antimalarial drugs had proved successful; the results were not immediate, and it might be several months before any improvement was noted, but there seemed hope that that line of research would yield results.

PLYMOUTH

Oceanography

DR. H. F. P. HERDMAN of the Royal Research Ship "Discovery II," National Institute of Oceanography, gave a talk recently to the Plymouth Branch of the Pharmaceutical Society, on "Oceanography in the International Geophysical Year." He illustrated his talk with a specially prepared film and colour slides. Dr. Herdman mentioned his own personal experiences connected with the study of the sea bed, the tracing of deep ocean currents, a new type of float which emitted signals that

enabled it to be tracked by the ship, and biological and chemical research on whales and their environment. In the International Geophysical Year much research on physical oceanography has been carried out by British ships, especially the "Discovery II" which had steamed some 30,000 miles in the course of this work. Many years would lapse before all the data collected could thoroughly be examined, but preliminary studies show that much has been learned. For instance, observations with the new current floats in the vicinity of the Gulf Stream, near South Carolina, showed that there was a level of relatively little movement below the north-flowing surface water there and that below the level of little or no movement there was a well-defined south-bound current. Other work, included six weeks spent on a very detailed examination of the outflow of warm deep water from the Mediterranean. The current ran in a westerly direction at a speed of about twelve miles a day and moved along the edge of the Continental Slope of Spain and Portugal. Although not strictly part of the work planned on the International Geophysical Year, much progress had been made recently with photography, in colour, of many small sea animals. Dr. Herdman ended his talk by showing a selection of these unique photographs taken by his colleague, Mr. P. M. Davis.

BRISTOL.

Pharmacists "Looking Elsewhere"

"Hospital pharmacy offers considerable and varied scope for the pharmacist who is interested in his work," said Mrs. F. E. Young (chairman, Bristol Branch of the Pharmaceutical Society) at the Branch's annual dinner on January 28. She considered it a pity that many of the best and most experienced pharmacists were looking elsewhere for opportunities. "I think it will be bad for the hospital service, the National Health Service, and the pharmaceutical profession if this is allowed to continue." The occasion was the first on which a woman had ever presided, Mrs. Young being only the second woman chairman in the history of the Branch. Mr. A. Aldington (a member of Council, Pharmaceutical Society), in proposing the toast of "The Bristol Branch," said that the Society was one of the oldest and finest of its kind in the world. Such were its

organisation and administration that pharmacists came from all over the world to study them and copy them. The Society's greatness naturally depended upon the efficiency of its branches, and the Bristol Branch was regarded as one of the best in the country. Mr. Aldington made reference to the new educational policy of the Society. During the evening Mrs. Young presented Mr. Aldington with a cheque for £26 5s. for the Society's Benevolent Fund. Mr. D. A. NORTON (vice - chairman) proposed "The Guests," Mr. Anthony Palin (chairman, Bristol Branch, British Medical Association) responding.

EDINBURGH

Sights Too High?

THE joint toast of the Pharmaceutical Society and its Edinburgh Branch was proposed by Dr. H. J. L. Robbie (head-master, Daniel Stewart's College), at the annual dinner and dance of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society which was held in Edinburgh on January 28. Mr. C. G. Drummond (chairman of the branch), presided. Dr. Robbie also spoke on educational matters, referring to the high standard demanded by the Pharmaceutical Society. He expressed the hope that the Society would not set its sights too high. He feared the effects on the future number of entrants to the profession, and the repercussions when the present generation wanted to retire and dispose of their businesses. The current high standard was already the cause of sons of well-established fathers being unable to "make the grade." Replying to the principal toast, Mr. H. STEINMAN (a past-president of the Pharmaceutical Society) put the case for the Society's educational policy, indicating that the profession of pharmacy with its new complexities, required a standard of entrance not inferior to that of the other professions. The new regulations had not had an adverse effect on the number of entrants, nor did he think they would in the future. Replying on behalf of the branch, THE CHAIRMAN said that pharmacy owed a debt to education, but in Edinburgh education owed a debt to pharmacy in that one of the Merchant Company schools (the Mary Erskine School for Girls) was founded by the widow of James Hair, druggist, in the early eighteenth century. Mr. Eric Knott proposed the

toast of the guests. DR. W. P. THOMP-SON (pharmacist and physician) replying.

DANCERSAI
HOUNSLOW: Group
photographed at dinner
and dance of Hounslow
Branch of the Pharmaceutical Society includes Mr. E. C. Baker
(chairman) and Mrs.
E. C. Baker, Alderman
A. J. Fielder (mayor
of Heston and Isleworth), Mrs. J. Leech
(mayoress), and Mr. T.
Heseltine (a member of
Council of the Pharmaceutical Society).



PYRETHRUM INDUSTRY IN AFRICA

Collaboration between scientist and farmer results in success story

THE general increase in the number of THE general increase in the number of species of insects which had developed resistance to the newer synthetic insecticides has led to a great revival of interest in pyrethrum throughout the world, according to Mr. T. F. West, D.Sc., Ph.D., F.R.I.C., European Operations Executive, African Pyrethrum Technical Centre, Ltd. Dr. West, who was addressing the Royal Society of Arts in London on February 10, on "The History of the African Pyrethrum Industry," said the fact that insects had not become tolerant to pyrethrum may be connected with the rather complex chemical nature of the four active constituents and that under normal conditions pyrethrum was not a persistent insecticide in contrast to many of the synthetic compounds. There was also an increasing awareness of the need for legislation to control the residues of insecticides remaining on foodstuffs, from which pyre-thrum was exempt in view of its lack of toxicity to warm-blooded animals.

The following is an abstract of Dr.

West's address:-

Africa, especially East Africa, is now the principal source of the world's supply of pyrethrum and yet less than thirty-five years ago the flower did not grow in that area. The cultivation of pyrethrum on an increasing scale in these territories and the success of the industry has been due to close collaborative effort in the fields of science and practical farming. There were two lines of origin behind the African production of pyrethrum. One through Cap-tain Gilbert Walker and the Imperial Institute and the other through Mr. V. A. Beckley (senior agricultural chemist to the Government of Kenya) and Sir John Fryer, the latter working at the Plant Pathology Laboratory of the Ministry of Agriculture at Harpenden in close association with Dr. Tattersfield of the Rothamsted Experimental Station.

Growing In Britain

In 1924, Sir John Fryer was exploring the possibility of growing pyre-thrum in the United Kingdom, and in the late summer of that year he obtained seed of Swiss origin (from plants grown at the Station Viticole, Lausanne) from Mr. Vayssière of the Entomological Station, Paris. Messrs. A. Joensson and Co. of Kobe also suggested to Fryer that pyrethrum might be successful in England and sent him a supply of Japanese seed early in 1925. The Swiss seed was sown in September 1924, and the seedlings were planted out in April 1925. The plants were placed in a sheltered bed in the garden of the Ministry of Agriculture at Harpenden. It was from this source that Mr. Beckley, having recognised the value of pyrethrum as an insecticide, obtained seed in 1929, having applied unsuccessfully in 1927. This seed was sown in the nurseries at the Scott Agricultural Laboratories in Kenya and, by August 1930, the first flowers were collected, and found to have a pyrethrin I content of 0.5 per

cent. Thus encouraged, Beckley proceeded to ascertain the general suitability of the crop for varying conditions in Kenya, and distributed in due course small quantities of seed to as many farmers as possible. The seed was from his own raising, supplemented in 1931 with a further supply of several pounds from Harpenden.

An "Enterprising Settler"

The other line of progress also dates from 1927, when Captain Gilbert Walker wrote to the Imperial Institute on the subject of pyrethrum as a possible crop. Walker was continually in contact with the Imperial Institute, both by correspondence and by periodical visits. In the words of Dr. J. R.

"He was an enterprising settler with a scientific approach and always ready to experiment with new crops. Later in 1927 he visited the Imperial Institute, when the definite recommendation was made to him to investigate pyrethrum growing in Kenya as the Japanese were finding it a very profitable industry. I had many talks with Chandler (the late Dr. S. E. Chandler) on the part the Imperial Institute had played in the introduction of pyrethrum to Kenya and, although he never said so, I am certain that he was the actual person who made the recommendation to Walker. From this interview Walker went away and proceeded to obtain seed from Dalmatia, through, I believe, brother who was in Dalmatia. He obtained his seed some months ahead of Beckley's supply from Harpenden. By 1928 Walker had established his plants, a year ahead of Beckley, and in 1929 sent his first sample of flowers to the Imperial Institute for analysis, and he was producing both flowers and seed when, as a result of Department experiments, it had been shown that pyrethrum was successful at altitudes above 5,000 feet in the Kenya Highlands, and encouragement was being given to the new crop. Beckley, Tattersfield and Chandler acclaim Walker as the first grower of pyrethrum in Kenya and the founder of the industry. In its expansion, his contribution of supplying seed from acclimatised strain was most important.

Prior to the growing of pyrethrum locally, Kenya had relied on Japan for supplies, which were used as a powder or a "paraffin" solution made locally by the oil companies generally for insecticidal purposes. With the advent of home-grown material, which for the first few years was all absorbed locally, more attention was given to the field of application. The development of methods of analysis and gradual understanding of the properties of the insecticide were made possible at this critical period by the classical work of the Swiss chemists, Staudinger and Ruzicka. Subsequent work by Gillam and West in Britain and by Haller and La Forge and their collaborators in the United States led to some modifications in the structural formulas and in 1945 La Forge and Barthel isolated

a second alcohol, cinerolone, which is present in pyrethrum flowers in the form of esters (cinerins I and II) with the same chrysanthemum acids already known in combination with pyrethro-

lone as pyrethrins I and II.

Experiments were carried out with S. G. Jary of Wye College on the optimum conditions for the artificial drying of the flowers. Reports from Kenya and from other countries where attempts had been made to establish the crop showed that the plant would grow well and produce flowers of high insecticidal activity in tropical regions of high altitude but that, in lower regions, the morphological character of the plant was changed and few or no flowers were produced. This was in-vestigated by Tattersfield and Martin at Rothamsted, who showed the necessity of a dormant period for the successful flowering of the plant. Fryer and Martin in 1931 also commenced a cross pollination experiment which lasted four years in an attempt to eombine high pyrethrin content with a large weight in flower head. Two plants from the bed started in 1928 by Tattersfield were used as parents; one, yielding flowers with over 2 per cent, pyrethrins, was propagated by splitting to serve as a later source of seed for Kenya and other regions overseas.

An Expected Surplus

On January 18, 1933, twelve growers of pyrethrum met at the Nakuru hotel, when Captain Gilbert Walker pointed out that by 1934 production of flowers would probably be in excess of local demand and that an export trade should be inaugurated. At this distance in time it is amazing that some doubt as to the necessity of forming an assoeiation was at first expressed, but it was finally accepted that a representative organisation was essential to protect the interests and to steer the development of the new industry. Thus the Kenya Pyrethrum Growers' Association was formed and Nakuru became the home and centre of the Afriposition can pyrethrum industry, a position which it still holds today. In 1933 the production of flowers was estimated at 15 tons and progress was rapid, and in 1935 "An Ordinance to regulate the Sale and Distribution of Pyrethrum grown in the Colony" became law and it gave the Governor in Council power to appoint an agency (i.e., the Pyre-thrum Board) which had the exclusive right to purchase pyrethrum from growers, and to sell in any market but "its first duty shall be to supply the demands of the Colony and other East African territories to the satisfaction of the Governor." Although kerosine extracts of pyrethrum were recommended for controlling insects on plant more than sixty years ago, it was not until the 1914–18 war that such products were offered commercially. As lete as 1926 at 152 cially. As late as 1926 a U.S. patent was granted protecting the manufacture ture of a liquid household insecticide consisting of a solution in a mineral oil such as kerosine of the "volatile

active principles of pyrethrum flowers." In the litigation which followed the patent was held invalid and it was proved that such products had been used in the U.S. navy during the war. It is surprising, in view of the diversity of pyrethrum extracts and products now available, that up to 1920 the material was used almost invariably as a powder. It was in 1934 that Potter began the work which demonstrated the satisfactory control of stored product pests in warehouses by sprays and films of pyrethrum in heavy oil. Thus an expanding market awaited the new East African industry when from 1935 flowers, more potent than any previously seen in commerce, became available for export.

Inducing Polyploidy

Research on high toxic strains was in progress at the Njoro Plant Breeding Station in 1937 and subsequently four specific pyrethrum stations were established which are now in the charge of Dr. U. Kroll, who recently reviewed the breeding of improved pyrethrum flowers. The importance to the farmer of growing pyrethrum varieties with a high insecticidal content is clear, since payment is based on the amount of pyrethrins delivered. Two main bud and flower diseases are known to influence the yield. One is caused by the fungus, Ramularia bellunensis, while the other is of a purely physiological nature, probably the result of a certain weakness in the plant, about which little is known. At present no really effective fungicide is known; therefore selecting and breeding for resistance are considered the most promising to combat the pest. In order to initiate bud production a certain degree of chilling is required. The chilling requirements differ between individual plants and varieties and in order to ascertain the optimal conditions for their flower production a series of research stations has been established in Kenya at altitudes of 7,000, 7,800, 8,200, and 9,100 feet respectively. Another peculiarity of the pyrethrum plant is the variation in total pyrethrins content as well as in the pyrethrin I: pyrethrin II ratio which often occurs from picking to picking. Work now in progress, however, is shedding more light on the relative insecticidal efficacy of the different constituents and future work lies in the production of varieties with predominantly the one or the other of the pyrethrins for specific insecticidal purposes. It is possible that polyploid plants may have distinct advantages. The inducement of polyploidy artificially by treating the seed or seedlings with the alkaloid colchicine has so far proved unsuccessful, but natural polyploids occur as mutations within colfections of hybrids. Two triploids have recently been observed, one in the Belgian Congo and the other at Molo, and both excel in the size of their flowers and have a high pyrethrin content.

In Tanganyika the growing of pyrethrum began in 1937-8. The two growing areas are in the Northern Province on the slopes of Mount Maru and Mount Kilimanjaro, and the other in the Southern Highlands, some 600 miles away. The industry is on a much smaller scale than in Kenya, as the following figures for 1956-7 show: ... 3,092·95 tons Kenya . . . Tanganyika,

Northern Province ... 488.60 Tanganyika,

Southern Province ... 289-93 In the Belgian Congo the cultivation pyrethrum began in the middle 1930's. Present production is of the order of 1,600 tons of flowers a year, which is now converted into extract at the recently completed Trapak factory in Goma.

By 1941, production having risen steeply [in Kenya] the desirability of restricting production was considered, but towards the end of 1942 the position had changed completely and Sir Ian Heilbron (at that time one of the three scientific advisers to the Ministry of Production) formed the Insecticide Development Panel to correlate the work of the various committees advising the three Services at that time. The Imperial Government made an urgent demand for increased supplies of pyrethrum, which was now to be classed a first priority crop, as the United States were pressing for a guaranteed supply for war purposes, and the requirements of the War Office had similarly risen. The provision of chinning space for flowers from Kenya shipping space for flowers from Kenya now became serious, the Ministry of Supply having guaranteed to purchase the produce of up to 50,000 acres, until the end of 1947. Accordingly, on the advice of Sir Ian Heilbron an extraction plant was erected in Nairobi by the Ministry of Supply, under the guidance of Stafford, Allen & Sons, Ltd. It did not come into operation, however, until the latter part of the war, with a capacity which enabled only a part of the crop to be processed, the output of extract being sent to England. It is interesting to note that in 1933 Captain Gilbert Walker had suggested that consideration be given to the local conversion of flowers to extract before exportation.

Synergists

In 1940 Eagleson made the extremely important observation that sesame oil, although not itself insecticidal, increased the biological efficacy of the pyrethrins against mos-quitoes and flies permitting considerable economy in formulations. An examination of the constituents of sesame oil responsible led to the development of the widely used synergist piperonyl butoxide and the other compounds containing the methylenedioxyphenyl group. Up to about 1943 pyrethrum was used in the U.S. army louse powder, and the study of this application broke new ground. It was found that ordinary pyrethrum powder ground pyrethrum flowers of merce) were not particularly effective against the body louse. When, however, pyrethrum extracts were impregnated on to an inert filler such as talc, the powders were highly effective and, what was more surprising, by the incorporation of an antioxidant such as hydroquinone such powders remained reasonably effective even after being exposed, spread thinly on paper in the laboratory at room temperature, for

340 days. The interesting observation was also made that sesame oil was quite ineffective as a synergist in the louse powders but that isobutylunde-

cylenamide was satisfactory.

After the end of the war, the industry received a sudden shock. In 1947 the United States released its wartime stockpile of flowers, and Freon, required for the production of aerosols, became unavailable in the United These circumstances and the spectacular advent of DDT in the war years, all contributed to the sudden slump in the American market, and the year 1948 found the Board with a considerable surplus of flowers. Growers drastically curtailed their planting, and fears for the survival of the industry were current.

In 1952 the practical application of scientific methods was placed on an expanding footing. In that year Dr. Furlong of the Imperial Institute and Dr. Potter of Rothamsted, on the invitation of the Colonial Office, arising from proposals by the Board, visited Kenya and Tanganyika and submitted a report on the industry. The imple-. mentation of this report, actively pursued by the Board, resulted in the building of Chemical and Entomological Laboratories at the centre of the

industry, in Nakuru.

With the end of the war, the Government's interest in the factory terminated and it was acquired by private interests who continue to operate it A new extraction plant has been erected at Nakuru by the Pyrethrum Board of Kenya and is thus owned by the growers themselves. The Board is at present endeavouring to foster a major development in the African pyrethrum industry and the programme of investigations in its laboratories has been extended to cover the needs of consumers in providing advice to formulators of insecticides containing pyrethrum. Africans have been growing pyrethrum in Kenya and Tanganyika for some years now, under the guidance of the Departments of Agriculture. The African grown crop has increased from 82 tons in 1952 to 341 tons in 1957, and thus forms only a small part of the total production, which is still essentially production, which is still essentially European.

Production Figures

The figures for the East African production of pyrethrum 1933-58 are given below:

,					Tons
	1933-	34			 16.6
	1934-	5			 79.6
	1935				 321.6
	1939				 2,869.3
	1940				 5,859.9
	1941				 5,763.3
	1942				 5,469 · 4
	1943			•••	 4,107.3
	1944				 6,547.1
	1945				 7,409.0
	1946				 6,740.1
	1947-	54 av	erage		 2,374.1
	Janua	ry/Ma	irch 1	955	 921 · 36
	April	1955/1	March	1956	 3,422.04
		1956/1			 3,871 · 48
	April	1957/1	March	1958	 4,400.0

The value of the crop (extract and flowers) for the last complete year 1957/58 was £1,507,126.

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The fastest-selling ethical throat lozenges.

Not all throat lozenges receive the approval of young patients! Taste is important.

'Tyrozets' and 'Sucrets' are pleasant to
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even when recommended for children.
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'Tyrozets' and 'Sucrets' instantly
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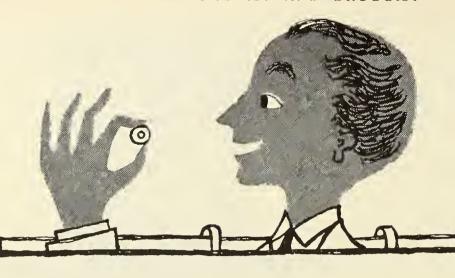
'Tyrozets' (exempt P.T.) retail at 2/6d. per tube; 'Sucrets' at 2/6d. per tin (including P.T.).

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... are so safe they can be taken as often as four times an hour
... are pleasantly flavoured and can be taken by children
... are being introduced to doctors, so expect prescriptions soon
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ECCLES

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 25: Commodities of Far-Eastern origin continued to maintain their firm tone through lack of offerings. Chinese MENTHOL was one shilling per lb. dearer on the spot with still no offers for shipment; Formosa, however, were offering forward but their price at 38s., c.i.f., was two shillings per lb. dearer than recently.

Kobé AGAR number one was four-pence per lb. dearcr for shipment. Elsewhere CRUDE DRUG prices, where changed, inclined to drift lower. On the spot TURMERIC dropped 5s, per cwt. and most types of Honey by the same amount, while for shipment, ALOLS was down 7s. 6d. and QUILLAIA by 12s. 6d. Lower per lb. were Aleppy green CARDAMOMS (down sixpence), both grades of Canary Isles Cochineal (by 2s. 6d.), Papain by one shilling, Saffron by 20s. and Turmeric by 5s.

In ESSENTIAL OILS, Chinese products were dearer; they included PEP-PERMINT (up one shilling per lb.) and SPEARMINT up 2s. Madagascar CLOVE LEAF was threepence per lb. dearer for shipment at 6s. per lb., c.i.f. Lower per lb. on the spot were LEMONGRASS by threepence and Ceylon CITRONELLA by three-halfpence.

ZINC OXIDE advanced 30s, per ton on February 23 as a result of an increase in the price of the metal.

Pharmaceutical Chemicals

ADRENALINE. — Rates for synthetic B.P. are from 1s. 1d. (500-gm. lots) to 1s. 6d. (10-gm.) per gm. and aCID TARTRATE, B.P., from 9d. to 1s.

from 9d. to 1s.

BORAX. — B.P. grade for quantities of 1 ton and upwards; Granular, £55; crystals, £57 10.; powder, £58 10s.; extra fine powder, £59 10s. per ton. Supplied in hessian sacks. Prices of commercial range from £45 to £50 10s. per ton, as to type and packing. Dehydrated borax is £68 per ton in paper-lined hessian bags or £67 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt., 3 cwt., 2s.; 1 cwt., 3s.

BORIC ACID. — Prices (per ton) for B.P.

BORIC ACID. — Prices (per ton) for B.P. grade in quantities of 1 ton and upwards are as follows: — Granular, £89 10s.; crystals, £96 10s.; powder, £94; extra-fine powder, £96 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical grades range from £75 10s. to £85 per ton according to type and packing ton according to type and packing.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £33 per ton in free bags, ex works.

LONDON EXCHANGE RATES

At the opening on Wednesday

Piastres to £ Florins to £ Alexandria.. Amsterdam . 10.48-10.80 rupee 1/5 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | Copenhagen. Frankfurt ... Frankfurt ...
Hong Kong . *Karachi $\begin{array}{c} 1/5\frac{1}{16}-1/6\frac{1}{16}\\ 79\cdot 09\frac{1}{4}-82\cdot 00\\ 2\cdot 73\frac{1}{6}-2\cdot 78\frac{1}{4}\\ 2\cdot 78-2\cdot 82\\ 19\cdot 71-20\cdot 30\frac{1}{4}\\ 1.407-1.410\\ 14\cdot 37\frac{1}{6}-14\cdot 59\frac{1}{4}\\ 2/4-2/4\frac{1}{4}\\ 11\cdot 94-12\cdot 54\frac{7}{6}\\ \end{array}$ rupee
Escudos to £
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Kronor to £ Montreal ... New York ... Oslo

*Paris Stockholm ...
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Zurich ... Shillings to \$
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Free market rates; remainder Bank of England Bank rate: 4 per cent, from November 20, 1958.

CALCIUM CHLORIDE. — B.P. crystals are 1s. $3\frac{1}{2}$ d., and granulated, $10\frac{1}{2}$ d. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE. — Quantities of 3 cwt. and upwards are quoted at 3s. 6d. per lb.; 1 cwt. to 2 cwt., 3s. 7d.

CALCIUM SUCCINATE. — Quotations are om 10s. 6d. to 12s. 6d. per 1b., as to lantity. SucciNic acid is from 10s. 6d. quantity. Succini to 12s. 3d. per lb.

CHALK. — Prepared powder B.P., is £22 per ton for minimum 1-ton ex works.

CHLORAL HYDRATE. — In 1-cwt. lots the price is about 4s. 3d. per 1b.

GUAIACOLS.—LIQUID B.P. is 16s. lb. for 28-lb. lots; Crystals, 16s. 9d.; Carbonate, 18s. 3d.

HOMATROPINE.—Current rates (per for 16-oz. lots are now: Alkaloid, 30s. 6d.; hydrobromide, 24s. 6d.; hydrobromide, 2f. Methylbromide, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

1SOPRENALINE SULPHATE.—B.P. is 1s. 3d. pcr gm. for 1,000-gm, lots and 1s. 9d. per gm. for 100-gm. lots.

KAOLIN.—In 1-cwt. bags LIGHT is quoted at 60s. per cwt. and 1-ton lots at 57s.

Lactic acid. — B.P. is 4s. 5d. per 1b. for 12-winchester lots and 4s. 4d. for 5-cwt. lots.

Lactose.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £129 10s. per ton, delivered in the United Kingdom.

Mandelic acid.—In 1-cwt. lots the price is 12s. 6d. per lb., with the Calcium Salt also 12s. 6d. Sodium mandelate is 13s. and ammonium mandelate 50 per cent. solution, 7s. 6d.

MERCURY DERIVATIVES.—Quotations (per MERCURY DERIVATIVES.—Quotations (per kilo) for less than 50-kilo lots are now as follows:—AMMONIATED, B.P., lump or powder, 58s. 9d.; PERCHLORIDE, B.P., powder, 50s. 9d. and lump, 51s. 9d.; SUBCHLORIDE (calomel), B.P., 58s., OXIDES, yellow, B.P., 61s. 6d.; red B.P.C., 1949, 62s. 6d.

METHOIN.—B.P. is about 120s, per lb.

METHYL SALICYLATE.—Five-ton lots are 3s. per lb.; 1-ton, 3s. $0\frac{1}{2}$ d.; 10-cwt., 3s. ld.; 5-cwt., 3s. 2d.; 1-cwt., 3s. 3d.

PARALDEHYDE. — B.P. in 12-winchester lots is 2s. 7d. per lb.; 10-gall, carboy, 2s. 2d., and 5 carboys, 2s. Stabilised in 40-gall, drum lots, 166s. per cwt.; technical, 149s. per cwt.

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb.; 1-cwt., 6s. 9d.

PHENAZONE. — Imported material minimum rate, 13s. 10d. per lb.

Procaine hydrochloride.—100-kilo lots are about 45s, per kilo.

SULPHOCARBOLATES.—SODIUM PHENOSUL-PHONATE, B.P.C., 1949 (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

Sulphur.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

Tannic acid.—The B.P. levis, ex ether is quoted at 10s. per lb. for 1-cwt, lots. The B.P. powder is 9s. 6d. per lb. in 1-cwt. lots.

Tartaric acid. — Rates for the home trade are as follows:—10-cwt. lots, 290s. per cwt.; 5-9 cwt., 292s.; 2-4 cwt., 294s.; per cwt.; 5-1-cwt., 295s.

TEREBENE.—For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28-lb., 14s. 6d.

TEREBINTH.—B.P. is 2s. 3d. per 1b.

TERPIN HYDRATE.—Prices are from 6s. per 1b., upwards as to quantity.

UREA.—Manufacturers' rates for pharmaceutical grade are £63 per ton in 1-cwt. bags non-returnable. Technical quality is £44 10s. per ton.

ZINC CARBONATE.—In 1-cwt. lots the price 1s. $9\frac{1}{2}$ d. per 1b.

ZINC CHLORIDE. — B.P.C. cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. Technical, 115s.

ZINC OXIDE.—Dearer, B.P. quality in 2-ton lots is now £101 10s.; 1-ton, £111; 10-cwt., £112 10s.

ZINC PEROXIDE. — Price (per lb.) for l-cwt. lots of B.P. is 5s. 3d.

ZINC SULPHATE.—B.P. in 1-cwt. lots quoted at 1s. 9d. per lb.; technical, 60s. per cwt.

Industrial Chemicals

ACETALDEHYDE. — The 100 per cent. is £155 per ton.

ACETATES. — Prices (per cwt.). for drum lots are as follows:—AMYL (technical), 255s., and B.S.S., 257s. BUTYL, 179s.; ETHYL, 151s.; ISOPROPYL, 147s.

ACETATE ANHYDRIDE. — 10-ton lots are quoted at £126 per ton, delivered U.K. in returnable drums; 1-ton lots, £128.

ACETONE. — One-ton lots are quoted at £90 per ton.

Benzole. — Thiophene-free is from 9s. $3\frac{1}{2}$ d. per gall. for one 50-gall. barrel and pure, 6s. $3\frac{1}{2}$ d. per gall. for similar

N-BUTYL ALCOHOL.—1-ton to 5-ton lots are quoted at £159 per ton and one-drum lots are £163 per ton. Secondary is £130.

CARBON TETRACHLORIDE, B.P.—1–2-carboy lots are £135 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots is £84; 1 ton and under 2 tons, £81; 2 tons and under 4 tons, £80 10s.; 4 tons and upwards, £79 10s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. $0\frac{1}{2}$ d, per gall, for 10,000-gall, lots; anhydrous in drum lots is £108

METHYL ETHYL KEFONE.—One-ton lots in drums are quoted at £145 per ton.

METHYL ISOBUTYL KETONE, — One-ton lots (in one delivery) are now £165 per One-ton

Naphthalene. - Home market prices (per ton for 4-ton lots at one time) are as follows:—CRUDE, crystallising point 64-71.9° C., £22 5s. to £23; WHIZZED, c.p. 72-77.5° C., £27 5s. to £35 15s. accord-12-11-5° C., £27 5s. to £35 15s. according to the crystallising point, ex works; PHIHALIC grade, minimum c.p. 77-5° C., £42 10s. ex maker's works; CRYSTALS from £62 10s. to £65, delivered; BALL AND FLAKE, £71 to £73 10s. delivered.

PHTHALATES.—Prices (per ton) for drum lots are as follows:—DIBUTYL, £216; DI-ISOBUTYL, £202; DIETHYL, £193 10s.; DI-ISOBUTYL, £202 METHYL, £185.

STEARATES. — Spot prices for minimum Steakales. — Spot prices for infinitum 1-ton lots are now as follows:—Aluminium (all grades), 258s. 6d. per cwt., Calcium (precipitated), 248s. 6d.; Lead (30 per cent.), 228s. 6d.; Magnesium (standard), 261s. and (superfine), 307s.; Zinc, 261s. to 291s. as to grade.

TITANIUM DIOXIDE.—In 5-ton spot lots anatase is from £162 5s. per ton; rutile is £178 5s. for surface-coated and £170 for non-surface-coated.

Crude Drugs

ACONITE. -Spot supplies of Spanish napellus are 2s. 6d. per lb.

Agar.—Kobe No. 1 is 10s. 6d. per 1b., duty paid; new-crop for shipment, 8s. 10d., e.i.f.

ALOES. — Cape prime on the spot is 220s. per cwt. and for shipment, 195s., e.i.f.

Areca.—Sound nuts 1s. 6d. per 1b., spot. BALSAMS. — Quotations per lb. are:—Canada: Spot, 23s. Copaiba: Para from 7s. 6d., duty paid. Peru: scarce at origin. Spot, 10s. 3d. in bond. Tolu (genuine as imported): 17s. 6d., spot and 16s., c.i.f.; B.P., 15s. 3d.

BELLADONNA. — Herb is 8s. 3d. per lb. on the spot. Root is 1s. 6d. spot; shipment, 1s. 3d., c.i.f.

Benzoin.—Sumatra block on the spot is £22 to £28 as to quality. Shipment not offering.

Buchu. — Spot rounds are 6s. per 1b. and new-crop for shipment, 5s. $4\frac{1}{2}d.$, c.i.f.

CALAMUS.—Root is quoted at 1s. 4d. per

CAMPHOR.—B.P. POWDER is from 4s. 3d. per 1b., duty paid. Tablets, 4-oz., are 5s. 6d. in bond.

CAPSICUMS. — East African are from 140s. to 175s. per cwt. on the spot.

CARDAMOMS. — Aleppy greens, spot, 14s. 6d. per lb.; forward shipment, 13s., e.i.f. Seeds, spot, 24s., shipment, 19s. 6d., c.i.f.

Cascara. — Spot 1958 peel, 240s. per ewt.; shipment, 200s. to 210s., c.i.f.

Cassia Lignea.—Spot, whole 270s. and shipment, 225s., c.i.f.

CHERRY BARK.—Thin natural is 1s. 5d. per lb., and rossed is 1s. 11d.

CHILLIES. — Spot Mombasa are 170s. per cwt. and Zanzibar, 225s.

Cochineal.—Silver-grey Peruvian on the spot from 5s. 6d. to 6s. 3d. as to quantity; Canary 1sles black-brilliant, about 17s. 9d.; silver-grey, 15s., spot.

COCILLANA.—Bark is 1s. 8d. per lb. on the spot.

HONEY. -Australian light-amber HONEY. — Australian light-amber is 105s. to 110s, and medium amber 100s, to 105s. Argentine, 115s. to 120s.; Jamaican, 120s. to 125s.; New Zealand clover, 170s., nominal; all per cwt. on the spot.

HYDRASTIS.—Spot 28s. per 1b.

IPECACUANHA. — Shipment (c.i.f.) Matto Grosso, March-April, 52s. 6d. per lb.; Colombian, 53s.; Costa Rican, 72s. 6d., nominal.

Karaya. — No. 1 gum on the spot is quoted at 230s. per cwt., No. 2 at 175s.

LIQUORICE. — Natural root; Persian on the spot is 50s.; for shipment, 42s. 6d., c.i.f., per cwt. Block juice: Anatolian and Chinese, 190s. per cwt., Italian stick from 310s. to 476s. per cwt. Spray dried extract, 2s. 10½d. per lb.

LOBELIA HERB.—Spot offers of American are 3s. 9d. per lb. and for shipment, 3s. 6d., c.i.f. Dutch 3s. 1d., c.i.f. for shipment; spot, 3s. 5d.

MENTHOL.—Chinese is 55s. per lb., duty paid; Brazilian, spot, 35s., duty paid, February-March shipment, 33s., c.i.f. Formosan for shipment, 38s., c.i.f.

NUTMEGS. — West Indian 80's 17s. per .. spot; sound unassorted, 12s. 9d.; lb.. spot; se defectives, 9s.

Orange peel. — Scarce. Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 8d.

Orris root. — Florentine is 335s. per ewt.

PAPAIN.—East African, 20s. per lb., c.i.f., for grade one, spot, 22s.

Pepper.—White Sarawak spot, 3s. per lb., February-March shipment, 2s. 114d.,

c.i.f.; Black Sarawak spot, 1s. 9d.; February shipment, 1s. 8d., c.i.f. Black Malabar new-crop for February shipment up to 230s., c.i.f., quoted, spot, 225s.

PEPPERMINT LEAVES.—Dutch, 2s. 2d. to 2s. 10d. per lb., c.i.f.

PIMENTO.—Spot value is 550s. to 560s.

Podophyllum.—*Emodi:* 230s. per cwt., c.i.f., shipment. *Peltatum*, on the spot, 4s. 3d. per lb.; shipment, 450s. per cwt.,

Pyrethrum.—Extract, minimum 25 per cent. w/w pyrethrins, is 75s. per lb. for small lots.

QUASSIA. - Shipment offers are at 39s. per cwt., c.i.f.

QUILLAIA.—Spot offers of whole bark at 130s. per cwt.; cut, 170s.; crushed, 165s. Whole for shipment, 95s., c.i.f.

RAUWOLFIA.—Canescens, 3s. 6d. per 1b., c.i.f.; Vomitoria, 2s. 3d., c.i.f.; Serpentina, 6s., c.i.f. asked.

RHUBARB.—Chinese small rounds 6s. 4½d. to 6s. 9d. Best grades not available on

SAFFRON. — Spanish is quoted at 200s.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 9d. per lb. Shipment, 2s. 4d., c.i.f.

SEEDS. — (Per cwt.). ANISE. — Spanish, 165s.; Turkish, 140s., both duty paid. CARAWAY.—Dutch are quoted at 122s. 6d., spot, duty paid. CELERY.—Indian offering at 165s. on spot. The shipment price is 147s. 6d., c.i.f., for prompt shipment and 142s. 6d. for June–July. CORIANDER.—Quiet. Small business passing in Moroccan at 142s. 6d. for June–July. Coriander.—Quiet. Small business passing in Moroccan at 52s. 6d., duty paid. Rumanian is quoted at 55s., duty paid. CUMIN.—Cyprian nominal at 260s., spot; Iranian, 250s., in bond. Dill.—Spot short at 77s. 6d.; shipment, 62s. 6d., c.i.f. Fennel.—In poor demand. Indian, 140s. spot quoted. Fenugreek.—Moroccan offering at 45s., duty paid, Mustard.—English in short supply. 125s. to 130s. quoted. duty paid. MUSTARD.—Englis supply. 125s. to 130s. quoted.

Senega.—Spot offered at 14s. 6d. per 1b.: shipment scarce with prices nominal.

Senna. — Tinnevelly Leaves, prime No. 1, 1s. 5d. per lb., f.a.q., No. 3, 10d. Pods: manufacturing (f.a.q.) 1s. 3½d. and hand-picked, 1s. 9d. to 2s. 2d. Alexandria pods: Manufacturing, offered from 1s. 6d. with hand-picked from 4s. to 6s. 6d.

Shellac.—F.O.T.N. 177s. 6d. per cwt., O. No. 1, 207s. 6d.; fine orange, 215s.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb.

SQUILL. — White is quoted at 85s. per cwt. on the spot.

STRAMONIUM. — Indian LEAVES 70s. cwt., and European, 80s., spot. Dutch 0.5 per cent. alkaloid, 94s., c.i.f., ship-Dutch ment.

STYRAX. — 23s. 9d., c.i.f. - Spot, 26s. per 1b., afloat,

Tonquin Beans.—Para on the spot are offered at 8s. 3d. per lb. Angostura, 11s. Tragacanth.—No. 1 ribbon is £115 to £120 per cwi. No. 2, £105 to £110.

TURMERIC.—Madras finger is 85s. on the spot; new crop for April-May shipment, 82s., c.i.f.

Valerian root. — Spot: Indian (with rootlets) is 130s, and Belgian, 175s, to 195s, per cwt. Dutch (max. $2\frac{1}{2}$ per cent. sand) for prompt shipment, 159s., c.i.f.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 25s. 3d.; 1 cwt., 25s. 6d 56-lb., 25s. 9d.; smaller quantities, 26s.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 480s.; shipment, 465s., c.i.f. Abyssinian, spot, 450s. in bond; shipment, 420s. c.i.f. Benguela spot, nominal; shipment, 405s., c.i.f. CANDELILLA.—Spot 460s. CARNAUBA.—Fatty grey spot, 580s.; for shipment, 575s., c.i.f. Prime yellow, spot, 900s.; shipment, 880s., c.i.f. Waxes. — (Per cwt.). BEES'.—Dar-es-

Essential and Expressed Oils

ALMOND. — British oil is 9s. per 1b. Moroccan, 6s. 9d., in bond.

AMBER.—Rectified on the spot is 1s. 6d.

ANISE.—Chinese, 8s. 3d. per lb., spot; shipment, 8s., c.i.f.

BAY.—West Indian is 12s. 6d. per 1b. on the spot.

BERGAMOT. — Spot supplies are from 86s. 6d. per 1b.

Bois DE Rose.—Brazilian is 14s. 6d. per lb on the spot and 13s. 6d., e.i.f.

CADE.—Spanish is 2s. 6d. per lb. for drum lots.

CAJUPUT.—Spot supplies are from 10s. per lb.

CALAMUS.—Spot quotations arc 62s. 6d. per lb.

CAMPHOR, WHITE. — Chinese is 1s. 9d. per lb. in bond.

CANANGA. — Spot is from 42s. 6d. to 45s. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported 27s. 6d. per lb.

CITRONELLA.—Ceylon, spot is 3s. 9d. shipment, 3s. 4d., c.i.f. Formosan, spot 4s., in bond, shipment, 3s. 9½d., c.i.f.

CLOVE.—Madagascar leaf, 6s. 10½d. per the date of the control of the contr

CUBEB.—Small spot supplies of imported are 65s. per lb.

CUMIN.—Quotations for English-distilled oil are about 90s. per lb. and imported,

EUCALYPTUS. — Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 9d, per lb. 80–85 per cent., 5s. 6d. Spanish (70–75), 4s. spot. Chinese 3s. to 3s. 3d.

Fennel.—Spanish sweet on the spot is quoted at 9s. 6d. per lb.

GERANIUM. — Bourbon is 112s. 6d. per lb. on the spot and 110s., c.i.f. Algerian, 92s. 6d.

Lemongrass. — Spot 6s. $4\frac{1}{2}d$. per lb., and shipment, 6s. $1\frac{1}{2}d$., c.i.f.

PATCHOULI. — Penang is 21s. 6d., duty paid and 18s. 6d., c.i.f. per lb.

PETITGRAIN. — Paraguay is offered at 17s. 6d. per lb. on the spot; 16s., c.i.f.

Pennyroyal. — Spot is quoted from 17s. per lb., duty paid.

PEPPERMINT. — Arvensis: Chinese is 26s. per lb. spot nominal; shipment not offering. Brazilian, 8s. spot, and 7s. 9d. c.i.f. Formosan, 16s. 6d., spot; March-April shipment, 16s., c.i.f. Piperita: Italian "Mitcham-type" from 42s. 6d. to 50s.; Appericar 27s. 6d. to 30s. as to origin.

American 27s. 6d. to 30s., as to origin, Sandalwood. — Mysore offered from 2s. 6d. to 85s. per lb. as to source. East Indian, 82s, 6d., spot.

Spearmint. — Offers of U.S.P. grade are from 37s. 6d. to 42s. 6d. per lb., spot. Chinese, 27s. 6d., spot and 25s., c.i.f., per

UNITED STATES REPORT

NEW YORK, FEBRUARY 24: Most DRUG and FINE CHEMICAL markets were reported steady in price, with supplies adequate and demand fairly good, exeept for ANTIBIOTICS where domestie inquiry has been slower. Lower per lb. among CRUDE DRUGS were TOLU BALsam at \$2.30, down 15 cents, and Spanish Saffron at \$35, down \$1. Among Essential Oils, Turkish Geranium advanced 25 cents to \$3.75 a lb., and PIMENTO LEAF increased five eents to

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," February 11 For all goods (5)

or all goods (5)
Dl-ALMINATE, 774,097, by Bristol-Myers
Co., New York, U.S.A. DOSISPRA, B779,481,
NAUTIBERON, 783,771, by C. H. Boehringer
Sohn, Ingelheim-on-Rhine, Germany. UCAL
FORTY PLUS, 780,355, UCAL 40 PLUS,
780,357, by United Chemists Association, Ltd., Cheltenham. NIDIKEL, DIMMICEL, 782,326-27, by Parke, Davis & Co., Detroit, Michi-U.S.A., and Staines Road, Hounslow Middlesex

For analgesics and pharmaceutical preparations

for use as sedatives, all for human use (5)
ZACTANE, 775,117, by American Home Products Corporation, New York, U.S.A.

For catamenial appliances (5)

MINISAN, 783,878, by Cosette (Lingerie), Ltd., London, W.1. or medicinal substances and preparations and

infants' and invalids' foods (5)
BULGURT, 780,416, by Svenska A.B. Remedia,

Stockholm, Sweden,

For pharmaceutical preparations and substances for veterinary use (5)

DOVAX, 781,500, by Willows Francis, Ltd.,

London, E.8. For infants' and invalids' foods and dietetic foods,

all being milk products (5) VELAC, 782,841, by A. Wander, Ltd., Lon-

don, W.1. For preparations for killing weeds and destroying

COPRANTOL, 783,636, by CIBA, Ltd., Basle, Switzerland

For photographic apparatus, instruments and utensils and parts (9)

HAN-O-MATIC, 783,943, by Hanimex (U.K.), Ltd., London, E.C.1.

For cleaning, polishing, scouring and abrasive preparations, soaps, perfumes and dentifrices (3) and small domestic utensils and containers (not of precious metal or coated therewith); combs, brushes, mops; and non-electric instruments and materials all for cleaning purposes (21)
Devices, 782,370, 782,057, by Betterwear Pro-

ducts, Ltd., Romford, Essex.

From the "Trade Marks Journal," February 18 For non-medicated toilet preparations and cosmetic

TREE OF LIFE, 779,256, by Helena Rubinstein, Ltd., London, W.1. For all goods (3)

WHITE LACE, 783,113, by Bourjois, Ltd.,

Croydon, Surrey.
For soaps and detergents (not for use in industrial or manufacturing processes) (3)

Device with words INSTANT FAIRY SNOW FOR EXTRA WHITE CLOTHES AND SOFT SMOOTH HANDS, 783,158, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne. MEXA, 783,578, by Co-operative Wholesale Society, Ltd., Manchester.

For detergents (not for use in industrial or manu-

facturing processes) (3) AUTOVAL, 783,187, by Commercial Supplies Syndieate, Ltd., Derby,

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory pre-parations, toilet articles (not included in other classes), sachets for use in waving the hair, soaps

and essential oils (3) VITAVYN, 783,576, by Yardley & Co., Ltd., London, E.15.

For all goods (3) and deodorants, disinfectants

and antiseptics (5)
RACALAV, 783,572, 783,198, by Racasan, Ltd., Ellesmere Port, Ches.

For all goods (3) and (5)
Device, B781,325-26, by Genatosan, Ltd., Loughborough, Leics.

For preparations for destroying vermin (5)

DACON, 776,875, by Harry Conn, London,

For pharmaceutical preparations (5)

DUODOM, 777,517, by H. & T. Kirby & Co., Ltd., London, N.W.2.

For all goods (5)
OTUMPON, 783,772, by C. H. Bochringer Sohn, Ingelheim-on-Rhine, Germany.

For sanitary substances, fungicides, bactericides,

germicides and pesticides (5)
MANOXAN, 782,901, by Hardman & Holden, Ltd., Manehester, 10.

For electric shaving instruments (8) OAKADA, B781,102, by Rosk B781,102, by Rosley Products, London, N.W.2.

For curling irons, hair clippers for personal use,



RETIREMENT PRESENTATIONS: Mr. Herbert Bibby (centre), a director of J. Bibby & Sons, Ltd., Liverpool, presents to Mr. John Sharples, O.B.E. (left), who retired in 1958, a pair of binoculars, and to Mr. J. R. Quinn, one of six travellers who introduced Bibby soaps to the retail trade in 1921, a portable radio.

hair clippers for animals, all being hand tools, razors, electric shaving instruments and parts and fittings (8)

PIFCO, 781,409, by Pifco, Ltd., Manehester, 4. For cameras and parts and fittings (9)
CRYSTAR, 774,260, by Mayfair Photographic

Suppliers, London, N.W.3.

For photographic cameras (9)

WELMY, 777,083, by Rosley Products, London, N.W.2.

flasks, jugs and jars, all being vacuuminsulated containers (21)

UNIVAC, 781,017, by Isovac, Ltd., London,

WILLS

Mr. G. S. Downie, M.P.S., 1 George Street, Mytholmroyd, Yorks, left £7,107 (£6,099 net).

MR. H. MIDGLEY, M.P.S., 8 Orchard Close, East Ardsley, Wakefield, left £10,936 (£9,571 net). MR. J. R. WALMSLEY, F.P.S., F.R.I.C., 12 horngrove Road, Wilmslow, Cheshire, left Thorngrove £8,408 (£8,304 net).

MR. D. F. WITZ, F.P.S., 29 Arundel Gardens, London, N.21, left £3,251 (£2,907 net).

MR. C. YEOMAN, M.P.S., Adamton, Elmwood oad, Herne Hill, London, S.E.24, lcft £2,363 (£2,328 net).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, March 2

LONDON SECTION, SOCIETY OF CHEMICAL INDUS-TRY, 14 Belgrave Square, London, S.W.1, at 6,30 p.m. Dr. R. A. E. Galley on "Colonial Research, Products and Pesticides." (Jubilee memorial lecture.)

NORTH METROPOLITAN BRANCH, NATIONAL PHAR-MACEUTICAL UNION, Beales restaurant, Holloway Road, London, N.7, at 8 p.m. Annual general Mr. H. Steinman (a member of the N.P.U. Executive) "Speaking Personally."
STOCKPORT BRANCH, PHARMACEUTICAL SOCIETY

Warren Bulkeley hotel, Warren Street, at 7.45 p.m. Mr. D. Allen Craig on "Modern Veterinary Practice."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Royal Bell hotel, Bromley, at 8 p.m. Mr. J. Farrer Barnes (a member of the Society's Farrer Barnes (a member of the Society' Council) on "Stepping Stones to the Future."

Tuesday, March 3

BIRMINGHAM PHARMACEUTICAL ASSOCIATION AND Branch, Pharmaceutical Society, Imperial hotel, at 8 p.m. Mr. H. Brenholz (Edgbaston observatory) on "The Work of the Edgbaston Observatory and Weather Forecasting.

Daily Mail IDEAL HOME EXHIBITION, Olympia, London, W.14 (until March 30).

LASGOW PHARMACY CLUB, Craig's

tea room. Sauchiehall Street, at 7.30 p.m. Whist drive. Norwich Branch, Pharmaceutical Society, Assembly house, Theatre Street, at 7.30 p.m.

sembly house, Theatre Street, at 7,3 Dr. E. C. Wood (county analyst) on Food. Faets and Fallaeies.'

Wednesday, March 4

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Midland hotel, Annual dinner and dance.
BURNLEY BRANCH, PHARMACEUTICAL SOCIETY, Cross

Keys hotel, St. James Street, at 7.45 p.m. Mr. T. Murray on "Skill and Magic."

Cambridge and Huntingdon Branch, Pharmaceutical Society, Matthews' café, Trinity Street, Cambridge, at 8 p.m. Film show.

GUILDFORD BRANCH, PHARMACEUTICAI SOCIETY, Hog's Back hotel, at 7 p.m. Annual dinner.

MANSFIELD BRANCH, PHARMACEUTICAL SOCIETY, Masonic hall, Nottingham Road, Mansfield, at 7 p.m. Annual dinner and danec.

THAMES VALLEY PHARMACISTS' ASSOCIATION AND BRANCH, PHARMACEUTICAL SOCIETY, Casino, Hampton Court, at 7 p.m. Annual dinner and

Thursday, March 5

DURHAM COUNTY BRANCH, PHARMACEUTICAL SO-CIETY, Redhill hotel, at 8 p.m. Social evening, eocktails, buffet supper and dancing.

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS- 1RY, Medway College of Technology, Maidstone Road, Chatham, at 7.30 p.m. Mr. D. A. Patient on "Automation in Analysis."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, College of Technology, Romford Road, West Ham, London, E.15, at 7 p.m. Film

NORTHERN SCOTTISH BRANCH, PHARMACEUTICAL Society, Royal hotel, Inverness, at 8 p.m. Film show,

READING BRANCH, PHARMACEUTICAI SOCIETY, George hotel, King Street, at 8 p.m. Dr. J, Bierer on "Do Most Mental Hospitals Meet the Needs of Patients and of the Communities They Serve?'

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Technical college, at 7.30 p.m. Joint meeting with British Pharmaceutical Students' Association (Sunderland branch), Mr, B. J. Thomas (Allen & Hanburys, Ltd.) on "Some Aspects of Practical Pharmacy."

WEST HAM ASSOCIATION AND BRANCH, PHARMA-CEUTICAL SOCIETY, Empire suite, Trocadero Restaurant, Piccadilly, London, W.1, at 6.30 p.m. Annual dinner and dance.

Friday, March 6

LEICESTER COLLEGE OF TECHNOLOGY AND COM-MERCE, SCHOOL OF PHARMACY, Grand hotel, at 7 p.m. Annual retinion dinner and dance.

LONDON UNIVERSITY, Physiology lecture theatre, University College, Gower Street, London, W.C.1, at 5.30 p.m. Professor J. Foleh-pi (Harvard medical school) on "Brain Lipoproteins and Proteolipids."

MFRSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 17 Bluecoat Chambers, School Lane, Liverpool, 1, at 7.45 p.m. Mr. Suteliffe Kerr (consultant surgeon, Walton Hospital) on "Recent Advances in Neurosurgery."

Society For Analytical Chemistry, Royal Society, Burlington House, London, W.1. At 2.30 p.m. Annual general meeting. At 7.45 p.m., at Fishmongers' Hall, London Bridge, London, E.C.4, biennial dinner.

Saturday, March 7

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS-TRY, AND LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY, Caxton hall, Caxton Street, Westminster, London, S.W.1, at 7.30 p.m. Buffet dance.

Advance Information

SCHOOL OF PHARMACY, BRIGHTON TECHNICAL COLLEGE, Richmond Terrace, Brighton, 7, at 10 a.m. on May 9. Symposium on "The Operation of Sterilising Autoclaves."

COMMERCIAL TELEVISION

Programme details are given to enable chemists to put in linking-up displays if they wish. Figures in the columns represent number of appearances of the product during the week.

March 8-14	London	Midland	North	Scotland	Wales	South	Z
Alka-Seltzer	2	1	1	_	1	_	
Amami wave set	2	2		_	2	1	1
Anadin	4	4			4		
Andrews liver salt	1 2	1		1	1	2	3
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Aspro	3	3	1		3	- 3	
Beecham's pills	_	_	_	3	_	_	3
Beecham's powders	3 2	3 2	2	1	1	4	_
Bristow's shampoo Bronco toilet rolls	_				_	_	_
Brylereem	1			3	2	2	2
California syrup of figs	_		2	_	_	—	_
Camay soap	2	2	2	4	2	2	
Cephos						_	_
Cojene Cutieura	3		_	_	_	_	_
Damaskin	1	1	_	_	_	_	_
Delrosa	_		_	_	_	3	2
Delsey toilet rolls	-	1	-		_		_
Diuromil	_		_	1	_	_	_
Eno's Fruit Salt	2			_			_
Euthymol tooth-paste Fennings' Little Healers		1	2	_	_	1	- 2
Ferguzade	_		_	5	_	_	_
Formula 21	5	5	5	5	-5	5	
Germolene	1	_	_	_		_	_
Gibbs' S.R. tooth-paste	_	_	_	_	4	3	_
Gillette razors and blades	R	8	8	8	8	8	8
Glymiel jelly				_	_		-
Horlicks	3	3	3	2	3	2	3
Imperial Leather soap	3	4	4			—	
Iron Jelloids	_	_	_	_	.3	3	
Kleenex tissues	1	1	1		1	_	
Knight's Castile soap	8		1	1	1	_	
Lantigen "B"				_	_	_	1
Loxene hair cream	_				4		
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PRINT AND PUBLICITY

PRESS ADVERTISING

ARBER ELECTRICAL SERVICES, L1D., Weston-super-Mare: Health Master lamps. In Punch, John Bull, Woman & Home, Country Life. BARBER Family Doctor, and other journals during March and April.

Cannon Rubber Manufacturers, Ltd., Ashley Road, Tottenham, London, N.17: Modern anti-eolie teats in national Press.

PUBLICATIONS Price Lists

CIBA LABORATORIES, LTD., Horsham, Sussex: Price list of pharmaceutical preparations. Pp. 10. EDWARD GURR, LTD., 42 Upper Riehmond Road West, London, S.W.14: Michrome stains for microscopy, biological and histochemical reagents, January.



DISPLAY UNIT: Wire display unit (29 in. high; 25 in. wide) made for Cow & Gate, Ltd., Guildford, Surrey. Finished in white stove enamel, the unit is easily assembled and dismantled. The showcard in full colour, size 19½ x 14½ in., is plastic-processed and changeable with others to be issued later. The unit was constructed by Abbey Display Co., London, W.I, and the showcard was mounted by the British Process Mounting Co., Bristol.



COUNTER DISPLAY STAND: The illustration shows a new counter unit for displaying the range of household aerosols marketed by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts. The stand is in white enamel wire, with multicoloured backing plate.

Periodicals

BRUCE STARKE & Co., Ltd., 5 Fenchurch Street, London, E.C.3: Dragoco Report No. 1, 1959.

Pp. 14.
CHILEAN JODINE EDUCATIONAL BUREAU, Chile
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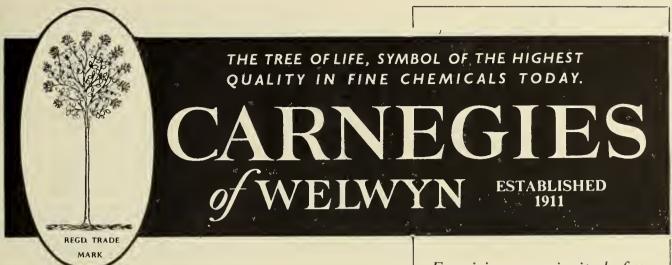
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C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Reta

CROOKES LABORATORIES tax imposition) Episol cream*	Ea		1.R	
NEW PRODUCTS A	ND	P	ACK	S
BURROUGHS WELLCOME Trillets lozenges 15	&	co.	2	6
J. & J. COLMAN, LTD. Robinson's Sicilian lemon juice (saccharin sweet-	Do	ΟZ		
ened) 12½ fl. oz.	26	8	2	9
CROOKES LABORATORIES, Cortoderm*	LT	D.		
0.25 per cent. 10 gm.	34	0	5	11
0.5 per eent. 10 gm.			7	10
1 per cent, 10 gm,	94	0	14	1 1
Cortoderm-N				
0.25 per cent. 10 gm.				1 1
0.5 per cent, 10 gm.				10
1 per eent. 10 gm.	94	0	14	I ½
KIMBERLY-CLARK, LTD. Delsey double Aqua-tint and double yellow			2	4
MAX FACTOR HOLLYWOO (SALES), LTD.	D A	ND	LON	DON
Hypnotique perfume‡ phial			8	9
† oz.			35	0
parfum Cologne‡ 2 oz.			10	
4 07.			16	
tale‡			4	

nil Price; *= Tax 30 per cent.;	‡=Ta	ax 60	per	cent.
MORNY, LTD,				
Morny gardenia soap*			I	2
box of 3			3	6
REVLON INTERNATIONA	L CO	RPO	RA1	HON
Revlon "Butterfly Pink"				
lipstick‡			7	9
Futurama refill‡			5	6
nail enamel frosted‡			5 7 5	3
regular‡			5	3
A. H. ROBINS CO., LTD.				
Robaxin tablets*	Eac	h		
dispensing pack 500	150	0 2	70	0
ROCHE PRODUCTS, LTD.				
Konakion ampoules			4	0
1 mgm. 3			4 28	6
			20	v
SCOTT & TURNER, LID.			4	
Perminex aerosol			4	0
SMITH & NEPHEW, LTD.				
Welldorm (paediatrie) tablets	Do.	7.		
$2\frac{1}{2}$ gr. 25	18		30	3
500	240	U	30	0
E. R. SQUIBB & SONS, LTD				
Adcortyl A ointment	Eac			
0·1 per cent. 5 gm.	4	3	6	41
lotion with graneodin	1.0		22	,
0·1 per eent. 15 mils	15	0	22	0
JOHN WYETH & BRO., LTI				
Equatrate tablets 50		0		4
250	396	0	44	



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For nearly half a century the name Carnegies has served as a standard in the fine chemical field for products of utmost purity and rigid adherence to pharmaceutical specification. Direct importation of raw materials, and the completion of every process under our own roof at Welwyn Garden City, enables us to compete successfully with world suppliers in any part of the globe. Yet we welcome and treat with equal importance the smaller orders too.

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Inquiries for Wholesale and Special Quantity terms invited.

1 oz.		$\frac{1}{2}$ oz.		l oz.
Per doz. 4/-	1 doz. cartons	4/3	1 doz. cartons	4/6
., 3/10	3 doz. cartons	4/1	3 doz. cartons	4/4
., 3/4	2½ gross quantities	3/7	$2\frac{1}{2}$ gross quantities	3/10
	(assorted)		(assorted)	

Produced by AYRTON SAUNDERS & CO. LTD., HANOVER STREET, LIVERPOOL.



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Approved by the Ministry of Health for loan by chemists against E.C.10 prescription orders and included on the drug tariff.

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ACCURATE, AUTOMATIC FLOW RATE.

Positive flow selectors are made by simply turning a clearly marked control knob. The selected flow rate is maintained automatically within + or — 10% with any cylinder pressure from 200 p.s.i. to 1,980 p.s.i. thus eliminating the need for adjustment as cylinder pressure falls.

Designed to ensure that the accuracy is not impaired by the handling to be expected in normal service. An integral guard protects the flow selector and pressure gauge from tightening of the wing nut. No leak testing is necessary.

Leading Particulars

Weight $2\frac{1}{4}$ lb.

Overall Height 61/4 ins.

Max. Width 6 ins.

Flow Rates 2 & 4 litres/min.

Max. Inlet Pressure

1,980 p.s.i.

Ambient Temperature Range 10°c to + 50°c.

Outlet Connection suitable for standard bayonet connector.

Designed and manufactured by

NORMALAIR

INDUSTRIAL DIVISION
27/31 MINSHULL ST. MANCHESTER 1.
Telephone: CENTRAL 3111

LTD



BIG TV CAMPAIGN INTRODUCES NEW

COLOURED Bronco TO THE MIDLANDS

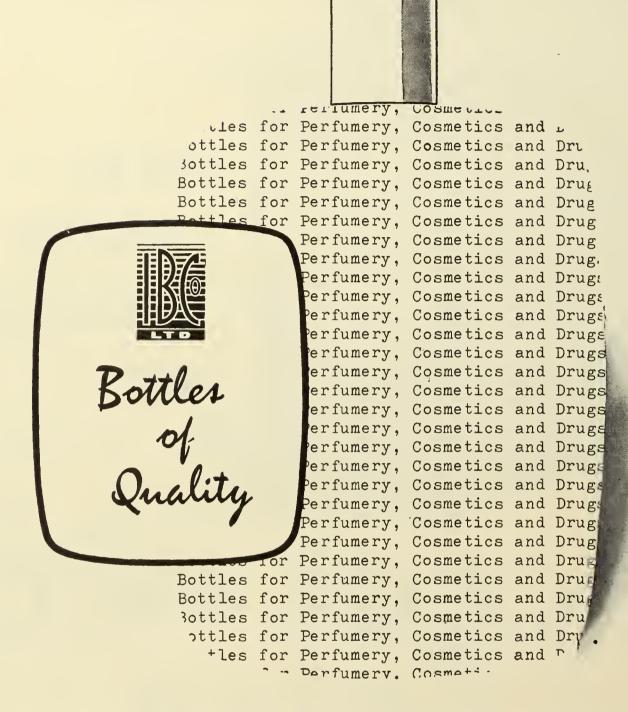
Bronco now comes in a range of bright pastel shades—and it comes first to the Midlands! That's the good news that commercials on Midlands TV will be taking into thousands of homes during March and April—news that will bring a big boost to Bronco sales throughout this densely-populated industrial area.

If you serve the Midlands you can expect an increased demand for Bronco—Britain's finest toilet tissue—pushing your sales and your profits to a new all-time high. Make sure you're prepared by stocking up with new coloured Bronco toilet rolls now.

POPULARITY PROVED

A series of consumer tests recently carried out proved that housewives welcomed coloured Bronco. Wherever it was displayed it was quickly sold out—positive proof of its popularity. On the strength of these encouraging test results, the Midlands has been chosen as the area for the introduction of coloured Bronco.

The BRITISH PATENT PERFORATED PAPER Co. Ltd., Hackney Wick, E.9 · AMHerst 4777 (5 lines)



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DISPLAY MATERIAL AVAILABLE



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A monetary allowance is made on quantities of 7 gross and over, according to brand.

The demand for our products increases, as the range we offer meets most requirements. If you are not already handling these, ask us, or our Representative about our introductory offer for Sylvia.

SYLVIA

12 per packet

Size:	0	1	2	3
Trade price :	19/3	21/6	25/6	30/6 Dozen
Retail Price :	2/1	2/4	2/10	3/6 Packet
Minimum Order	12	12 .	12	6 Packets

SYLVIA MATERNITY PADS

Size 12 inch. 12 per packet

Trade price: 31/6 Dozen. Retail price: 3/11 Packet
Minimum Order 6 packets

SOFTEXE

Sizes 1 and 2 only

Size :	1 (Twelves)	1 (Sixes)	2 (Tweives)
Trade price:	17/7	9/-	22/2 Dozen
Retail price:	2/	1/-	2/6 Packet
Minimum Order	- 12	24	12 Packets

ALTEX

Size 1 only. A splendid seller reserved to the trade

Size :	l (Twelves)	1 (Sixes)
Trade price:	19/- Dozen	9/9 Dozen
Retail price:	2/1 Packet	1/1 Packet
Minimum Order	12 Packets	24 Packets

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RIDDOVYDRIN ASTHMA

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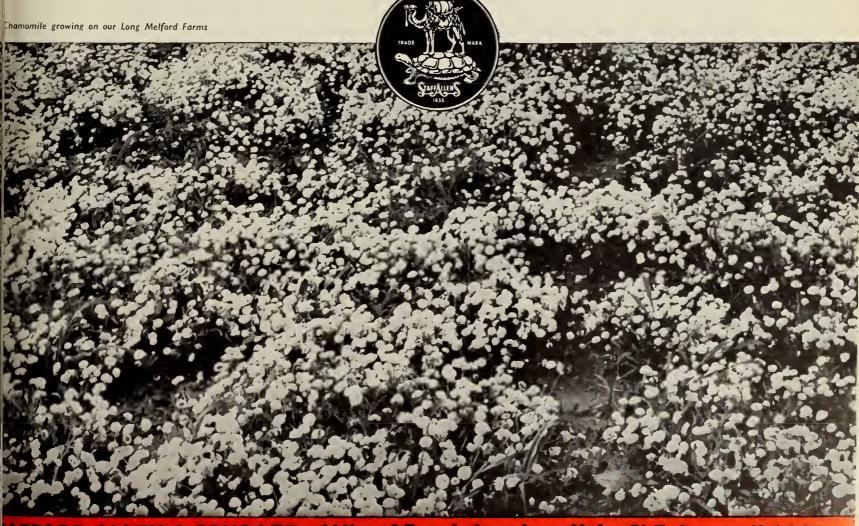
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jewelled sun glasses set the pace in style and sales for 1959



T.V. advertising introduces Stratton Jewelled Sun Glasses on the London, Midlands and Northern net-works in a ten weeks' campaign in May, June and July. 20 million viewers will see the commercials for Stratton Jewelled Sun Glasses. Jewelled frames, designed by Stratton, give these sun glasses a glamour that makes them a fashion accessory. They are so pretty women will wear them whenever

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RHODOGLASS in 5 colours

8 styles for women.

2 conservative styles for men.

Retailing at 816 to 1516

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ask for illustrated brochure and order your stocks and counter dispenser NOW from your wholesaler

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LAUGHTON & SONS

WARSTOCK ROAD, BIRMINGHAM, 14 makers of the famous Stratton compacts



But photographers are only human. Pharmacists - well, they're different. Not meaning anything unpleasant, naturally! They just know that the shampoo swallowed by the scalp and the beer that cleanses the cranium is one and the same thing. [inco-[in shampoo beer. Sorry. Jinc-o-Jin BEER SHAMPOO.

Pharmacists also know that fine-o-fin beer shampoo does their business the world of good. Immeasurably the best that money can buy, spot-on point of sale and all round economy see to it that Line-o-Lin beer shampoo literally sells itself. Creates everlasting customer goodwill too.

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Barrel 2/6



Twin Pack



Sachet 10 d.

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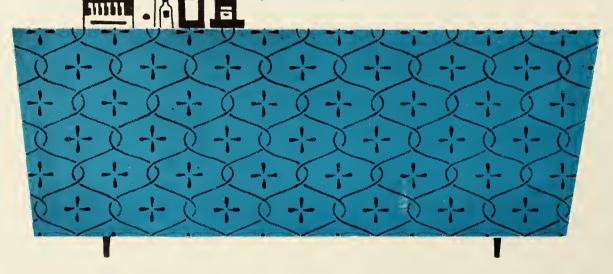
55/57, Strafford Road, London, W.3. Telephone: ACOrn 6791 (3 lines)

Chemists looking for More Customers look for ERITE Surfaces

Brighten up your shop, and save work and costs by fitting WARERITE surfaces. On counters and partitions, on doors and cash desks or for hygienic easy-to-clean wall panelling, these colourful decorative surfaces create an air of enterprise, cleanliness and contemporary ideas. WARERITE surfaces remain new-looking with no maintenance costs!

Talk to your builder or shopfitter about the two forms of WARERITE and ask to see the full range of patterns and colours.

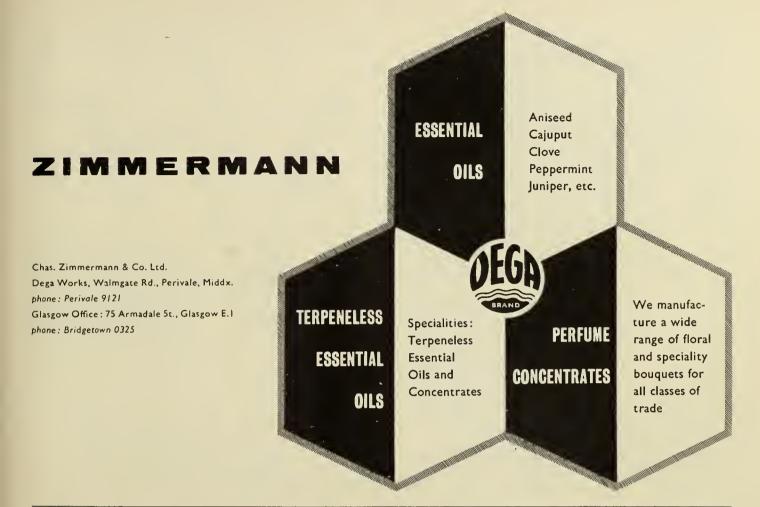
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Popular choice for vitamin supplementation. Vitamins A, B, C and D in full potency in a palatable chocolate coating.

	Trade	Retail
50 pellets	2/4	3/6
500 pellets	14/6	21/9
1000 pellets	27/6	_
Special winter	bonus terms	for bulk
orders.		



'RADIO-MALT' TRADE MARK

For radiant health. Delicious, toffee-flavoured, so popular with infants and young people.

| Trade | Retail | 1|b. jars | 2/5½ | 3/6 | 2|b. jars | 4/4 | 6/3 | Special winter bonus terms for bulk



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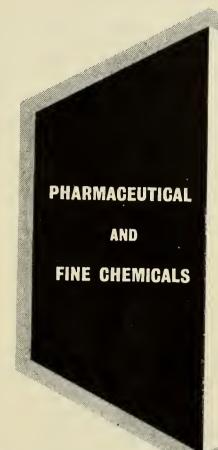
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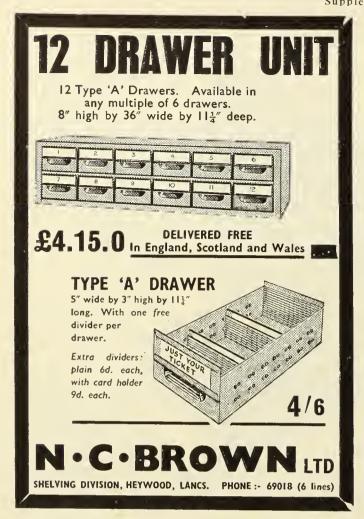
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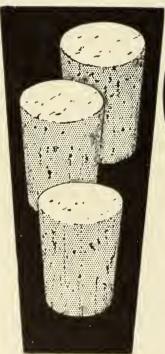
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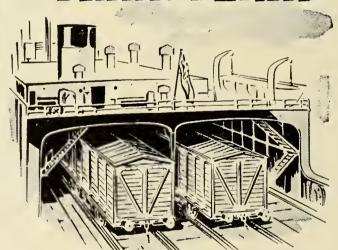
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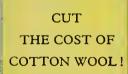
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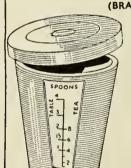
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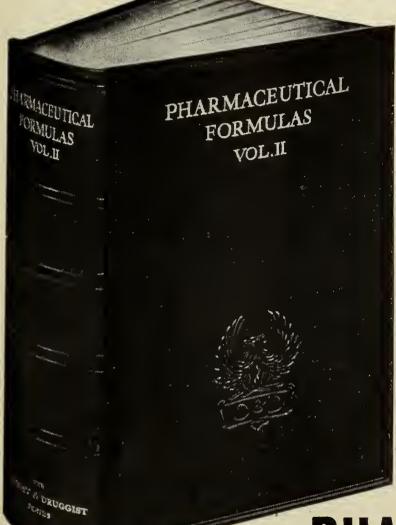
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PREMISES FOR SALE

DOVERCOURT, ESSEX. Mod. shop. house, expanding area, ideal opening for ehemist, Two doctors' surgeries recently erected. £2,750. Paskell & Cann, Dovercourt. C 2066

PREMISES WANTED

WANTED in the London area, suitable rooms or premises for optical practice, or as an alternative can you suggest a possible location. A letter from you would be appreciated. A letter from you would be appreciated. N. Robinson, 19 Broad Street, Blaenavon, Mon. C 2075

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BRANCH PHARMACY in Edinburgh for sale, Turnover approx, £10,000 (without optics), Assessed rental £90, Price for property, fittings (including fully-equipped obtal room) and goodwill £5,000 or offers. Stock at valuation (approx, £1,500), Financial assistance may be arranged, Reply to Box C 2059, DRUG STORE, suit progressive chemist, exceptional opportunity, Quick sale desired. Good position, living accommodation, long lease, Budden, 64 Park Street, Luton, C 2057

APPOINTMENTS

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE Senior Pharmacist and Pharmacist

Senior Pharmacist and Pharmacist for Bethnal Green Hospital, Modern department approved for training students. Salary scale, Senior Pharmacist £675—£865 p.a. Pharmacist £605—£815 p.a., plus higher qualification allowance and London Weighting. Please apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 344

FINCHLEY MEMORIAL

FINCHLEY MEMORIAL
HOSPITAL,
GRANVILLE ROAD,
NORTH FINCHLEY, N.12
Part-time Pharmacist
required, Approximately 30 hours weekly, Experienced Assistant-n-Dispensing would be considered, Whitley Council salary, Apply to Hospital Secretary. C 441

BROOKWOOD HOSPITAL,

Assistant-in-Dispensing
Applications are invited for the above post. The successful candidate will be required to work under the supervision of the Chief Pharmacist, who is responsible for the preparation and issue of drugs and dressings for about 1.750 nations

and issue of drugs and dressings for about 1,750 patients. Salary Scale £170 p.a. at age 16 years rising to £375 at age 22 years or over rising to a maximum of £490 p.a. (plus £20 p.a., for an approved qualification). Professional and Technical Council B of Whitley Council conditions apply to the appointment which is subject to the provision of the National Health Service Superannuation Regulations.

lations.

The successful candidate will be required to pass a medical examination.

Accommodation available for female candidate for which a charge of £2 8s, per week will be made

made.

Applications giving particulars of age, experience and qualifications, together with names of two referees to the Physician Superintendent, as soon as possible,

C 417

COUNTY HOSPITAL,

LINCOLN

Senior Pharmacist

Applications are invited for this appointment at the above acute general Hospital, Salary according to Whitley Council scales. Please apply to the Secretary, naming two referees. C 8953

H.M. PRISON WORMWOOD SCRUBS, LONDON, W.12

Vacancy at H.M. Prison, Wormwood Scrubs. London, W.12, open to men and women registered pharmacists age 25 or over. Salary scale £605—£815 plus London allowance of £20—£40 plus £25 for higher qualifications. N.H.S. Superannuation Scheme. Apply Establishment Officer, Prison Comm.ssion, Horseferry House, R.237, Dean Ryle Street, London, S.W.1. Closing date March 14.

LAMBETH HOSPITAL, **BROOK DRIVE, S.E.11** (Acute General 510 beds)

required. Salary in accordance with Whitley Council Scale, plus London Weighting. Applications stating age, experience, qualifications and names of two referees to the Secretary.

KING EDWARD VII HOSPITAL, WINDSOR

(Category III Hospital)
Pharmacist

required immediately. Whitley salary. Applica-tions with details of service and names of three referees to Secretary. C 8932

KNOWLE HOSPITAL,

FAREHAM, HANTS

Assistant-in-Dispensing

Applications are invited for the above post (non-resident), the conditions of which are as agreed by the Whitley Council,

Salary scale is £215 p.a, at age 18 rising to £395 at age 22 or over rising to a maximum of £510 p.a. (plus £20 p.a. for an approved qualification).

Applications giving age assistant.

Applications giving age, experience and qualifications, together with names of two referees, should be sent to the Physician Superintendent as soon as possible.

MAYDAY HOSPITAL (Category IV)

(Category IV)
Senior Pharmacist
Modern department, Good working conditions,
Opportunity to secure wide experience in Hospital Pharmacy work, Mayday Hospital (General Acute, 595 beds) is linked for Pharmacy
control with a Geriatric Unit (410 beds) and a
busy Eye Clinic, Whitley Council rates of pay,
Application form obtainable from the undersigned signed.

General Hospital, GEORGE A. PAINES, London Road, Croydon, Group Secretary. C 8937

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, PRESTON ROYAL INFIRMARY Senior Pharmacist

Applications are invited for the post of Senior Pharmacist at the above general hospital, Whitley Council scale and conditions, Salary £675 x £30 (1) x £35 (1) x £30 (3) x £35 (1)—£865, plus £25 per annum higher qualification allowance. Additional payments for voluntary evening clinic duties. allowance.

evening clinic duties.

Applications with names of two referees, to the Group Secretary, Royal Infirmary, Preson, C 8983

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Professional Valuers to the Pharmaceutical Trade.—Wholesale, Retail and Hospital Stocks. Branches throughout England and Scotland.

Appointments—Continued

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

LOINDOIN, E.o Locum Pharmacist required from Monday, March 23, 1959, to work in a modern department. Apply to Hos-pital Secretary. C 8979

NOTTINGHAM No. 2 HOSPITAL MANAGEMENT COMMITTEE, NOTTINGHAM CITY HOSPITAL (811 beds) Deputy Chief Pharmacist (Category V) Required at the above hospital. Applications are invited for the above post, which is now vacant.

The City Hospital is a Group hospital and The City Hospital is a Group hospital and caters for the pharmaceutical requirements of a number of subsidiary hospitals in the area. Applicants should have a wide experience in hospital pharmacy, and be capable of controlling staff. A knowledge of surgical instruments is desirable. The successful applicant will work under the Group Chief Pharmacist and will be required to assume complete control in his absence.

absence.
Further particulars regarding the post can be obtained on application to the Group Chief Pharmacist. Whitley conditions and salary, Applications, stating age, qualifications and full particulars of previous experience, together with the names of two referees, should be sent to the Group Secretary, Sherwood Hospital, Nottingham, as soon as possible. C 8920

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, CHORLEY AND DISTRICT HOSPITAL, CHORLEY Pharmacist Applications are invited for the post of Pharmacist at the above general hospital. Excellent opportunities to obtain wide experience in hospital pharmacy.

Excellent opportunities to obtain wide ence in hospital pharmacy.
Whitley Council scale and conditions. Salary £580—£785 per annum, plus £25 per annum higher qualification allowance.
Applications with names of two referees, to the Group Secretary, Royal Infirmary, Preston, C 8969

QUEEN'S HOSPITAL

QUEEN'S HOSPITAL
(Geriatric Unit—410 beds)
Pharmacist (part-time)

24 hours weekly. Pharmacy is linked with that of Mayday Hospital and under control of Chief Pharmacist of that Hospital.
Canteen on Hospital premises.
Whitley Council Salary Scales.
Application Form available from the undersigned.

GEORGE A. PAINES.
General Hospital, Group Secretary.
London Road, Croydon, C 8918

READING AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE

COMMITTEE
Pharmacist
required at the Royal Berkshire Hospital, Reading (Category V), Six pharmacists with full stipporting staff, Frequent five-day weeks, Commencing salary, new entrants, up to £730 p.a. hased on previous professional experience and National Service after qualification, Applications to Group Pharmacist, Royal Berkshire Hospital.

C 443

SHREWSBURY HOSPITAL

GROUP

Pharmacist

For Copthorne Hospital

Pharmacist

For the Group Pharmacy at the Royal Salop
Infirmary, with rota duties at other hospitals in
the Group, as may be required.

Salary in accordance with Pharmaceutical
Whitley Council scale.

Applications to the undersigned from whom
any further particulars may be obtained.

J. P. MALLETT,

Group Secretary.

C 8938

REDHILL COUNTY HOSPITAL,

REDHILL COUNTY HOSPITAL,
EARLSWOOD COMMON,
REDHILL, SURREY
Pharmacist (male or female)
required in new department at the above hospital. Post now vacant, Experience can be given in manufacturing sterile preparations, Applications in writing giving two referees and detailing experience to Deputy Group Secretary, at above address.

C 8984

STEPNEY GROUP HOSPITAL MANAGEMENT COMMITTEE Applications are invited for the post of Deputy Chief Pharmacist (Category IV) at Mile End Hospital, Bancroft Road, London, E.1. Whitley Council salary scale and conditions of service. The department is responsible for pharmaceutical supplies to another hospital and clinic in the Group and the preparation of sterile products. Further particulars may be obtained on application to the Chief Pharmacist. Applications stating age, qualifications, experience and the names of two referees to be addressed to the Group Secretary at Mile End Hospital, not later than March 12, 1959. C 8975

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

A vacancy exists for a Pharmacist, Salary according to Whitley Council scales. Write, giving names of two referees, to the Chief Pharmacist.

ST. LAWRENCE HOSPITAL, **CHEPSTOW**

required, Apothecaries Hall or equivalent, Salary at 18 £235, 19 £265, 20 £300, 21 £340, 22 or over £415 x £15 (5) x £20 (2)—£530, Residential accommodation available if desired, or be non-resident. Write quoting two referees to T, A, Jones, Group Secretary, 64 Cardiff Road, Newport, Mon.

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

Locum Pharmacist
Immediate vacancy exists for a Locum Pharmacist, Salary by negotiation, Applications, in writing, to Chief Pharmacist.

C 8965

THE GENERAL HOSPITAL, DEWSBURY, YORKS Pharmacist

Pharmacist
required immediately for modern department in a Category 111 Hospital, Post offers good experience including small scale manufacturing, Accommodation for single person can be arranged, if required.

Applications giving age, experience and qualifications, together with names and addresses of two referees to be sent, as soon as possible, to the Administrative Officer.

C 8966

WEYMOUTH & DISTRICT HOSPITAL (124 beds)

(124 beds)

Assistant-in-Dispensing
required from April I, 1959, Whitley Council
salary scale; at present £175 p.a. at age 16;
£395 at age 22 and over; rising to £540 p.a.
(maximum). Additional £20 p.a, if holding recognised qualification,
Applications stating age, experience, and names
of two referees, to Group Secretary, West
Dorset H.M.C., Damers Road, Dorchester, Dorset, C 8961

WHITTINGTON HOSPITAL, LONDON, N.19 Pharmacist

required in Department of seven including clerk, Salary £635—£845. Candidates may visit the department by direct arrangement with the Medical Superintendent (ARChway 3070 Ext: 440.)

Applications, stating age, qualifications, experience and naming two referees to Medical Superintendent, within ten days. C 8906

SITUATIONS VACANT

RETAIL HOME

BERKSHIRE, part-time dispensing assistant, lady, qual-fied or unqualified, modern pharmacy, few minutes' walk Ascot station. Light dispensing. Owner requiring more time for rapidly developing counter trade, Hours by arrangement. Apply in writing to Margaret Stiles, Brockenhurst Road, South Ascot.

C 2084

KILBURN, N.W.6. Lady counter assistant required for good-class pharmacy. Experience in cosmetics and general chemist's sales essential. Apply. Idwal Grey, 56 Salusbury Road, N.W.6. (Maida Vale 5778.)

LONDON, E.C.4, AREA. Wanted Chemist/ Manager for new shop opening July, Male or female. Busy position. Good prospects for energetic person. No living accommodation. Every encouragement for advancement. Write Box C 2071,

LONG ESTABLISHED CHEMIST

requires recently qualified assistant with view to eventual partnership if suitable. Wednesday half-holiday, normal closing 6 p.m. Reply, stating expected salary, religion, etc., J. Shillington, M.P.S., Cherryvalley Pharmacy, Gilnahirk Road, Belfast. C 2063

METCALFE & CO. (L'POOL), LTD., require pharmacist/manager for branch shop at Ditton, Widnes. Salary £1,040 per annum for 44-hour wcek. Three-bedroom flat available. Write Managing Director, Metcalfe & Co. (L'Pool), Ltd., 596 Prescot Road, Liverpool, 13. C 2012

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for position of pharmacy branch manager, either sex. Modern accommodation available if necessary. Superannuation, Salary and other emoluments at least £960, Applications, stating age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. C 2068

PERMANENT POSITION in Home Counties offered to assistant with knowledge of general pharmaceutical business, window dressing and photographic experience. Please give details of experience and salary asked in first letter. Regret no accommodation. Box C 2082.

RELIEF MANAGER required for the period June 1 to September 26, for branches in East London. All are fully staffed, including dispensing assistants, Generous salary and expenses. Apply Superintendent Chemist, 17/19 Freemasons Road, E.16, or telephone Albert Dock 2254.

SOUTH LONDON. Manager required for Central warehouse of a Group of Retail Chemists' shops. Please state particulars of experience and wages required to Box C 2073,

STAMFORD. Pharmacist required as branch manager, This is a modern shop with a busy counter trade but only light dispensing. Present inclusive salary £1,000 per annum. Very attractive self-contained flat available at a reasonable rent. This is a permanent superannuated post. Apply Peterborough Co-operative Chemists, Ltd., Park Road, Peterborough. C 2052

YOUNG PHARMACIST required to assist in managing and take an active and responsible YOUNG PHARMACIST required to managing and take an active and responsible part in general running of main branch business. A congenial and permanent position. Accommodation could give full details of experience, age, etc. Skitt's Pharmacies, Ltd., 104 Hill Street, Rams-C 2056

WHOLESALE

ANALYST wanted for analytical and research work; pharmaceutical qualification minimum and some experience preferred. Five-day week, pension scheme. Full details with application to: Technical Director, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, I.

Situations Vacant—Continued

EXPERIENCED REPRESENTATIVE required for exclusive new French perfume house on high eommission basis only, Territorics now open: Southern counties, Midlands, the North, Scotland and Wales, Apply Box C 2064.

land and Wales, Apply Box C 2064, CALMIC LIMITED invite applications from pharmacists for the production and manufacture of general pharmaceuticals. These positions offer excellent opportunities for advancement in a progresive and expanding eompany. Free life assurance and contributory pension scheme is operated by the company, Canteen facilities. Applications, which will be treated as strictly confidential, to Works Manager, Calmic Limited, Crewe Hall, Crewe. C 8973

ARMOUR PHARMACEUTICAL

COMPANY

We are expanding our sales force by appointing additional Medical Representatives throughout the U.K., and particularly for the London area, Applicants, aged 28-35, with a minimum of two years' experience in Medical Representation with a Company of repute and with a determination to make a career in this extremely competitive but rewarding field will be considered and local interviews arranged where necessary.

Adequate training, generous salary, ex-

Adequate training, generous salary, Adequate training, generous salary, expenses, and a company car are provided and superannuation and group life insurance schemes are operative. Written applications furnishing complete details of education and career to:

Sales Manager,

Hampden Park,

Eastbourne

C 8988

C 8988

DEVELOPMENT CHEMIST

A vacancy arises in the Product Development Section of Winthrop Laboratories, Ltd., manufacturers of a wide range of internationally known pharmaceuticals. Work will concern formulation and production of a varied and enterprising range of new products in a modern well-equipped factory. Applicants should have a good qualification, and previous development experience in the pharmaceutical or allied industries. Applications in strict conlidence to: Product Development Manager, Winthrop Laboratories, Ltd., Edgefield Avenue, Newcastle-upon-Tyne, 3.

EDWARD TAYLOR LIMITED

Manufacturers of Medical Plasters, re-Manufacturers of Medical Plasters, require a Representative to cover Hospitals and Wholesalers in the Home Counties, North and South of London. Company car provided, Remuneration by salary and expenses.

Applications stating age, experience, and full details of previous employers, which will be treated in confidence, to Sales Manager, Monton, Eccles, Manchester.

C 2040

EXPORT SALES EXECUTIVE

Applications are invited for a position as Export Sales Executive, Candidates should have had experience in marketing pharmaceutical specialities overseas and should he not more than 35 years of age. In due course the successful applicant will he expected to visit oversea markets on hehalf of the Company, A non-contributory pension scheme is in operation.

Please send brief details, marking the envelope "Strictly Conlidential," to:—

The Export Sales Manager,
The Distillers Co. (Biochemicals), Ltd.
Broadway House,
Wimbledon, S.W.19.

C 8956

EXPERIENCED tablet coater required for small pharmaceutical firm in Yorkshire, Details to Box C 8967.

GENATOSAN, LTD, (Member of the Fison Group)

MEDICAL REPRESENTATIVES

Due to a programme of expansion, an opportunity exists for experienced and energetic men on each of the following territories:—

a. Middlesex
b. Bedfordsh're, Buckinghamshire and

a. Middlesex
b. Bedfordsh're, Buckinghamshire and
Oxfordshire
c. Suffolk and part of Essex
Applications are sought from pharmacists or others who believe they have
adequate technical backgrounds. A
comprehensive training programme
will commence in May. Applications
stating age, education, career to date
and preference for territory, should be
addressed to the Personnel Officer,
Genatosan, Ltd., Loughborough, Leics.
This information will be treated in
strict confidence. Please quote reference
No. 60.

C 8978

MAN OR WOMAN with keen knowledge of fine and pharmaceutical chemical trade, import-export-shipping. Full details of experience, salary required, Leopold Charles & Co., Ltd., 28 Duke Street, S.W.1. C 2081

LEVMEDIC LIMITED MEDICAL REPRESENTATIVE

MEDICAL REPRESENTATIVE

This British subsidiary of Farbenfabriken Bayer A.G., Leverkusen, Germany, require the services of an experienced Medical Representative in the Glasgow/Edinburgh area.

Applications are invited from persons under 45 years who possess a pharmaceutical qualification or similar background and who are keen to establish a career in a growing organisation, Experience of the Territory is desirable and a high standard of personal initiative and integrity is essential.

A good starting salary with a generous expense allowance is offered and a company car is provided. A Staff Pension Fund is in operation.

Applications should be addressed, in confidence, to:—

The General Manager,

Applications confidence, to:—
The General Manager,
Levniedic Limited,
37-41 Bedford Row,
London, W.C.I.

C 2080

MANUFACTURERS of old-established nationally advertised toilet soap and allied products require agents for the

allied products require agents
following territories:—

1. Central Yorkshire, preferably
based on or near Leeds.
2. Wales excluding South as far
West as Llanelly, plus Shropshire and N. Staffordshire, preferably based on or near

ferably based on or near Shrewsbury.

Calls are on "Chemists Only" and it is therefore desirable that applicants should have existing connections in that

Coverage required every 6 to 8 weeks. Regular demand stimulated by advertising will ensure a steady income, All replies will be acknowledged, Sales Manager, Box C 8963.

SALES REPRESENTATIVE Ireland to SALES REPRESENTATIVE required for Northern Ireland to call on retail chemists selling nationally known sanitary towels, surgical dressings and chemists' sundries. Salary, commission and expenses, Car provided, State age and selling experience, Box C 8962.

STAFFORD ALLEN & SONS, LTD., have vacancy for a young pharmaeist for development work on new produets. The position offers much scope for advancement, Write stating age, experience, etc., to T.S.M., Wharf Road, London, N.1.

THE BRITISH DRUG HOUSES, LTD.,

require a

MEDICAL REPRESENTATIVE

for the following territory:

Hertfordshire and North London,

Candidates should be pharmaeists and he under 35 years of age. Remuneration by salary and expenses, A Company ear is provided. There is a superannuation fund (contributory) and the Company operate life assurance and profit-sharing schemes, Apply giving details of age, qualifications and experience to HAC/JLH, Personnel Manager, The British Drug Houses, Ltd., Graham Street, London, N.1.

SITUATIONS FILLED

LEDA CHEMICALS, LTD., thank applicants for posts under Box No. C 8598, which have now been filled. C 8970

AGENTS WANTED

AGENTS REQUIRED for some areas to develop sales, prior to advertising, of a well-known proprietary, untaxed, non-competitive and non-scasonal. Superbly presented for quick counter sales, 15 per cent, commission, Other regular sellers available. Full information including territory please, Box C 2083.

TWO OR THREE first-class counter lines offered to agents with good connections amongst chemists (including co-operatives) in Northern Ireland, Scotland, Wales, North-west, South and West of England. Good, steady repeatable products, made by established firm. Box C 2074.

SITUATIONS WANTED **RETAIL HOME**

DISPENSING ASSISTANT (male), experi-cnced, available for position, London area, West-End, City preferred, Excellent references, Interview arranged, Replies acknowledged, Box C 2078,

UNQUALIFIED male dispensing and counter assistant (35) seeks situation London area. Wide experience. Well recommended. Box C 2062,

RETAIL (OVERSEAS)

DENVER WILLIAMSON, International locum, Kineton, Warwickshire. Replaces Proprietors/Managers worldwide. Experience home, France, Italy, South America, Africa C 1987

WHOLESALE

DOCTOR experienced business, administration, public relations (technical literature, advertisement copy, films, etc.), seeks post with progressive organisation, Part-time, free-lanee considered. Box C 2050.

EXPERIENCED medical and pharm, representative, willing to work hard and go anywhere, invites replies from pharmaceutical or cosmetic houses, Excellent references, Box 62060

MEDICAL REPRESENTATIVE, age 28, desires change of position, five years' experience of detailing to the medical profession, university and ex-public school, present domicile Eire hut fully mobile. Box C 2070.

AGENCIES WANTED

IRISH REPUBLIC. Twenty years established firm of agents, holding several pr.ncipal pharmaceutical agencies, seek additional agencies for top-grade advertised products only. Over 1,000 live chemist accounts open and regular 8/10 weeks contact. Service offered includes selling, distributing, packaging and manufacturing. Unapproachable sales record, Full particulars by return and marketing advice on any new product or other information willingly, Box C 2037.

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LIMITED

Invite applications for the appointment of Professional Services

Manager to be located at Speke, Liverpool. Qualification in pharmacy or pharmacology and experience in the pharmaceutical industry are necessary. Responsibilities include answering technical enquiries, training representatives and collaborating with advertising and marketing departments in promotional activities. Salary is attractive and there is a pension scheme in operation. This is a senior appointment offering good reward for capability

C 8939

Full particulars should be sent in complete confidence to:

W. W. HESELTINE,
E. R. SQUIBB & SONS LTD
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and initiative.

IMPERIAL CHEMICAL INDUSTRIES LIMITED

There are the following vacancies in the Birmingham Sales Office of Imperial Chemical Industries Limited.

For a PHARMACIST to work as a Representative calling on Doctors; also for a REPRESENTATIVE to call on Retail Chemists; and also for a young PHARMACIST to work in the Sales Office to gain the experience to fit him for the position of Representative.

Applications should be made in writing to the Regional Staff Officer, Imperial Chemical Industries Limited, Britannia House, 50 Great Charles Street, Birmingham, 3.

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Retail price 2/6 a Jar. Wholesale price 24/- doz
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THE CHANCE OF A STEADY CAREER

Opportunities are offered to outstanding young men with drive and initiative wishing to start as medical representatives. A pharmaceutical qualification/experience or equivalent academic attainment essential. Vacancies occur in—

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- 2. West Riding of Yorkshire

Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First-class candidates desiring success and security should apply with full details to the Secretary,

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EXCLUSIVE perfumery agency to established sales organisation, calling on leading stores and chemists throughout British Isles, Apply Box

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No. 2 and No. 3 tablet bottles required. Please send particulars of quantity, and price, to Box C 2061.

BUYER specialises in disposing of job lots of any lines appertaining to pharmacy. Any quan-tity considered, Prompt cash settlement. Will-ing to discuss adaptation of any line which is not quite suitable in its present state, Please send samples and full details to: N. Morris, 218 Walworth Road, S.E.17, Tel. No.: ROD. 7261

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere, Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

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SURPLUS CAMERAS, ENLARGERS, CINE CAMERAS & PROJECTORS, PHOTOGRAPHIC EQUIPMENT OF EVERY DESCRIPTION, SURPLUS AND OUTDATED FILM & PAPER, LARGE OR SMALL QUANTITIES. Phone, write or call:—

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(Dept. D.), 14 Watling Street, Shudehill, Manchester,

Phone: Blackfriars 1916, Bankers: Midland Bank, Ltd.

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C 438

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Complete with SIX Adjustable Shelves.
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